



Caspases

And Other Apoptosis Related Tools

"....Helping You Find The Right Pathway"



Advancing your life science discoveries™





Caspases and Other Apoptosis-Related Tools

Caspase Assay Kits

Product	Cat. No.	Size
Caspase Detection Kit (FITC-VAD-FMK)	QIA90	1 kit
Caspase Detection Kit (Red-VAD-FMK)	QIA92	1 kit
Caspase Flow Cytometric Apoptosis Assay Kit	QIA78	1 kit
Caspase-1 Inhibitor Screening Assay Kit	218734	1 kit
Caspase-1 Assay Kit, Colorimetric	218790	1 kit
Caspase-1 Assay Kit, Fluorometric	218791	1 kit
Caspase-2 Assay Kit, Colorimetric	218792	1 kit
Caspase-2 Assay Kit, Fluorometric	218793	1 kit
Caspase-3 Inhibitor Screening Assay Kit	235418	1 kit
Caspase-3 Activity Assay Kit, Fluorometric	QIA70	1 kit
Caspase-3 Activity Assay Kit, HTS	HTS02	100 T 500 T 1000 T
Caspase-3 Detection Kit (FITC-DEVD-FMK)	QIA91	1 kit
Caspase-3 Detection Kit (Red-DEVD-FMK)	QIA93	1 kit
Caspase-3 Cellular Activity Assay Kit	235419	1 kit
Caspase-3 Immunoassay/Activity Kit, Fluorometric	QIA107	1 kit
Caspase-3 Intracellular Activity Assay Kit I (PhiPhiLux™ G ₁ D ₂)	235430**	1 kit
Caspase-3 Intracellular Activity Assay Kit II (PhiPhiLux™ G ₂ D ₂)	235432**	1 kit
Caspase-5 Assay Kit, Colorimetric	218804	1 kit
Caspase-5 Assay Kit, Fluorometric	218801	1 kit
Caspase-6 Assay Kit, Colorimetric	218802	1 kit
Caspase-6 Assay Kit, Fluorometric	218803	1 kit
Caspase-7 Immunoassay/Activity Kit, Fluorometric	QIA108	1 kit
Caspase-8 Activity Assay Kit, Fluorometric	QIA71	1 kit
Caspase-8 Activity Assay Kit, HTS	HTS03	100 T 1000 T
Caspase-8 Assay Kit	218770	1 kit
Caspase-8 Detection Kit (FITC-IETD-FMK)	QIA113	1 kit
Caspase-8 Detection Kit (Red-IETD-FMK)	QIA114	1 kit
Caspase-9 Activity Assay Kit, Fluorometric	QIA72	1 kit
Caspase-9 Activity Assay Kit, HTS	HTS04	100 T 1000 T
Caspase-9 Assay Kit, Colorimetric	218824	1 kit
Caspase-9 Detection Kit (FITC-LEHD-FMK)	QIA115	1 kit
Caspase-9 Detection Kit (Red-LEHD-FMK)	QIA116	1 kit
Caspase-10 Assay Kit, Colorimetric	218810	1 kit
Caspase-10 Assay Kit, Fluorometric	218811	1 kit

Additional Kits for Apoptosis Research

Annexin V-Biotin Apoptosis Detection Kit	PF036 [§]	1 kit
Annexin V-FITC Apoptosis Detection Kit	PF032 [§]	1 kit
Apoptotic Cell Isolation Kit	QIA110	1 kit
Bcl-2 ELISA Kit	QIA23	1 kit

Product	Cat. No.	Size
Biotinylated Bcl-2 Western Blotting Kit II	WBB12	1 kit
BrdU Cell Proliferation Assay	QIA58	200 T 1000 T
BrdU Cell Proliferation Assay, HTS	HTS01	200 T 1000 T
BrdU Immunohistochemistry System	HCS30	1 kit
CARD (Caspase Recruitment Domain) Sampler Kit	ASK22	1 kit
Cell Death Detection (Nuclear Matrix Protein) ELISA Kit	QIA20	1 kit
Cytochrome c ELISA Kit	QIA74	1 kit
Cytochrome c Release Apoptosis Assay Kit	QIA87	1 kit
Cytosol/Mitochondria Fractionation Kit	QIA88	1 kit
Downstream Effector Caspase Sampler Kit	ASK23	1 kit
Fas/APO-1 ELISA Kit	QIA24	1 kit
Fas Independent Pathway Discovery Pack™	DSV02	1 kit
Fas Ligand ELISA Kit	QIA27	1 kit
c-Fos Immunohistochemistry System	HCS17	1 kit
FragEL™ DNA Fragmentation Detection Kit, Colorimetric - Klenow Enzyme	QIA21	1 kit
FragEL™ DNA Fragmentation Detection Kit, Colorimetric - TdT Enzyme	QIA33	1 kit
FragEL™ DNA Fragmentation Detection Kit, Fluorescent - TdT Enzyme	QIA39	1 kit
BrdUTP-FragEL™ DNA Fragmentation Detection Kit	QIA80	1 kit
BrdUTP-FragEL™ DNA Fragmentation Detection Kit, Red Cy3	QIA82	1 kit
Glutathione Apoptosis Assay Kit, Fluorometric	QIA89	1 kit
MitoCapture™ Apoptosis Detection Kit	475866	1 kit
Nucleosome ELISA Kit	QIA25	1 kit
p53 ELISA Kit (Mutant Selective)	QIA03	1 kit
p53 ELISA Kit (Pantropic)	QIA07	1 kit
p53 ELISA ^{PLUS} (Autoantibody) Kit	QIA53	1 kit
p53 Biotinylated Western Blotting System	WBB08	1 kit
PARP Cellular ELISA Kit	QIA105	1 kit
PARP Cleavage Detection Kit	512729	1 kit
PARP Histochemistry Kit	QIA106	1 kit
PIG3 ELISA Kit	QIA101	1 kit

Antibodies to Caspases

Anti-Caspase-1α, Human (Rabbit)	PC79	100 µg
Anti-Caspase-1β, Human (Rabbit)	PC80L	100 µg
Anti-Caspase-1γ, Human (Rabbit)	PC81L	100 µg
Anti-Caspase-1ε, Human (Rabbit)	PC82L	100 µg
Anti-Pan Caspase-1, Human (Rabbit)	PC84	100 µg
Pan Caspase-1 Peptide	PP59	100 µg
Anti-Pro Caspase-1, Human (Rabbit)	PC83	100 µg

** Sold under license of U.S. Patents 5,605,809 and 5,714,342; § Sold under license of U.S. Patent 5,834,196; * Trial size available; T = Test

Caspases and Other Apoptosis-Related Tools

Antibodies to Caspases, cont.

Product	Cat. No.	Size
Pro Caspase-1 Peptide	PP60	100 µg
Anti-Caspase-2, Human (Rabbit)	PC107	100 µg*
Anti-Caspase-3 (Ab-1), Human (Mouse)	AM20	100 µg*
Anti-Caspase-3 (Ab-2), Human (Mouse)	AM34	100 µg*
Anti-Caspase-3 (Ab-3), Human (Mouse)	AM39	100 µg*
Anti-Caspase-3 (Ab-4), Human (Mouse)	AM65	100 µg
Anti-Caspase-3, Cleaved (Ab-2), Human (Rabbit)	PC679	50 µg
Anti-Caspase-3, Human (Rabbit)	235412	100 µl
Anti-Caspase-4 (Ab-1), Human (Rabbit)	PC109	100 µl*
Anti-Caspase-4 (Ab-2), Human (Mouse)	AM38	100 µg*
Anti-Caspase-5, Human (Rabbit)	218781	100 µg
Anti-Caspase-6 (Ab-1), Human (Rabbit)	PC365	100 µg*
Anti-Caspase-6 (Ab-2), Human (Rabbit)	PC416	100 µg*
Anti-Caspase-6, Human (Rabbit)	218774	100 µg
Anti-Cleaved Caspase-6 (Asp ¹⁶²), Rat (Rabbit)	AP1012	50 µl
Anti-Caspase-7 (Ab-1), Human (Rabbit)	PC334	100 µg*
Anti-Caspase-7 (Ab-2), Human (Mouse)	AM45	100 µg*
Anti-Caspase-7 (Ab-3), Human (Rabbit)	PC422	100 µg
Anti-Active Caspase-7 (Ab-1) Human (Rabbit)	PC520	50 µl
Anti-Caspase-8 (Ab-1), Human (Rabbit)	PC335	100 µg*
Anti-Caspase-8 (Ab-3), Human (Mouse)	AM46	100 µg*
Anti-Cleaved Caspase-8 (Asp ³⁸⁴), Human (Mouse)	AP1013	100 µl
Anti-Caspase-9 (Ab-1) (Rabbit)	PC336	50 µg*
Anti-Caspase-9 (Ab-2) (Mouse)	AM47	100 µg*
Anti-Caspase-9, Human (Rabbit)	218794	100 µl
Anti-Caspase-9S (Ab-1), Human (Rabbit)	PC475	100 µg*
Anti-Caspase-9, Cleaved (Ab-2), Human (Rabbit)	PC680	50 µg
Anti-Cleaved Caspase-9 (Asp ³¹⁵), Human (Rabbit)	AP1014	50 µl
Anti-Cleaved Caspase-9 (Asp ³⁵³), Rat (Rabbit)	AP1015	50 µl
Anti-Caspase-10 (Ab-1), Human (Rabbit)	PC332	100 µg*
Anti-Caspase-10 (Ab-2), Human (Rabbit)	PC350	100 µg*
Anti-Caspase-10, C-Terminal (505-521), Human (Rabbit)	218771	100 µg
Anti-Caspase-11 (Ab-1), Mouse (Rabbit)	PC379	100 µg*
Anti-Caspase-11 (Ab-2), Mouse (Rabbit)	PC445	100 µg*
Anti-Caspase-12 (Ab-1), Mouse (Rabbit)	PC557	100 µg*
Anti-Caspase-12 (Ab-2), Mouse (Rabbit)	PC558	100 µg*
Anti-Caspase-13, Human (Rabbit)	PC526	100 µg
Anti-Caspase-14 (Ab-1), Mouse (Mouse)	AM64	100 µg
Anti-Caspase-14 (Ab-2), Mouse (Rabbit)	PC676	100 µg

Antibodies to p53

Product	Cat. No.	Size
p53 Antibody Sampler Kit	ASK07	1 kit
Anti-p53 (Ab-1) (Pantropic), Mouse (Mouse)	OP03	100 µg*
Anti-p53 (Ab-1) (Pantropic), Mouse (Mouse)	OP03L	100 µg
Anti-p53 (Ab-1) (Pantropic), Mouse (Mouse) Fluorescein Conjugate	OP03F	100 µg
Anti-p53 (Ab-2) (Pantropic), Human (Mouse)	OP09	100 µg* 200 µg
Anti-p53 (Ab-2) (Pantropic), Human (Mouse)	OP09L	100 µg
Anti-p53 (Ab-3) (Mutant), Human (Mouse)	OP29	100 µg* 200 µg
Anti-p53 (Ab-3) (Mutant), Human (Mouse)	OP29L	100 µg
Anti-p53 (Ab-4) (Wild type) (Mouse)	OP32	100 µg*
Anti-p53 (Ab-4) (Wild type) (Mouse)	OP32L	100 µg
Anti-p53 (Ab-5) (Wild type) (Mouse)	OP33	100 µg*
Anti-p53 (Ab-6) (Pantropic), Human (Mouse)	OP43	100 µg*
Anti-p53 (Ab-6) (Pantropic), Human (Mouse)	OP43L	100 µg
Anti-p53 (Ab-6) (Pantropic), Human (Mouse), Agarose Conjugate	OP43A	500 µl
Anti-p53 (Ab-6) (Pantropic), Human (Mouse) Fluorescein Conjugate	OP43F	100 µg
Anti-p53 (Ab-7) (Pantropic), Human (Sheep)	PC35	1 kit
Anti-p53 (Ab-8) (Pantropic) (Mouse)	OP73	100 µg
Anti-p53 (Ab-11) (Pantropic) (Mouse)	OP104L	100 µg
Anti-p53 (Ab-12) (Pantropic), Human	OP140	100 µg
Anti-p53, Phospho-Specific (Ser ¹⁵) (Ab-3) (Rabbit)	PC386	50 µl*
Anti-p53, Phospho-Specific (Ser ¹⁵) (Ab-6) (Rabbit)	PC461	25 µl
Anti-p53, Phospho-Specific (Ser ³⁹²), Human (Mouse)	506133	100 µg
Anti-p53, Phospho-Specific (Ser ³⁹²), Human (Rabbit)	PC683	100 µl
Anti-p53, Phospho-Specific (Ser ³⁹²) (Ab-4) (Rabbit)	PC387	50 µl*
Anti-p53R2 (Ab-1), Human (Rabbit)	PC655	100 µg

Antibodies to PARP and PARG Related Products

Anti-PAR (Ab-1), Bovine (Mouse)	AM80	100 µg
Anti-PAR (Rabbit)	528815	100 µl
Anti-PARG, Human (Rabbit)	AP1018	50 µl*
Anti-Cleaved PARP (Asp ²¹⁴), Mouse (Mouse)	AP1010	100 µl
Anti-PARP (Ab-1), Human (Rabbit)	PC100	100 µg
Anti-PARP (Ab-2), Bovine (Mouse)	AM30	100 µg
Anti-PARP (Ab-3), Bovine (Mouse)	AM68	25 µl*
Anti-PARP (197-214), Human (Rabbit)	512738	100 µl
Anti-PARP (215-228), Human (Rabbit)	512739	100 µl
Anti-Cleaved PARP (Ab-2), Human (Rabbit)	PC646	100 µg
Anti-PARP Automodification Domain (509-524), Bovine (Rabbit)	512737	100 µl

* Trial size available

For species reactivity and antibody applications, visit www.calbiochem.com



Caspases and Other Apoptosis-Related Tools

Antibodies to PARP / PARG Related Products, cont.

Product	Cat. No.	Size
Anti-PARP-1, Bovine (Rabbit)	512734	100 µl
Anti-sPARP-1, Mouse (Rabbit)	PC550	25 µl*

Antibodies to Bcl-2 Family

Anti-Bad, Mouse (Rabbit)	195872	100 µg
Anti-Bad, Phospho-Specific (Ser ¹¹²) (Ab-1), Mouse (Rabbit)	PC518	50 µl
Anti-Bad, Phospho-Specific (Ser ¹¹²) (Ab-3), (Rabbit)	PC636	50 µg
Anti-Bad, Phospho-Specific (Ser ¹³⁶) (Ab-2), Mouse (Rabbit)	PC519	50 µl
Anti-Bad, Phospho-Specific (Ser ¹³⁶) (Ab-4), (Rabbit)	PC637	200 µl
Anti-BAFF (Ab-2), Human (Rat)	AM69	25 µg*
Anti-BAG-1, Human (Rabbit)	PC115	100 µg
Anti-Bak (Ab-1), Human (Mouse)	AM03	100 µg*
Anti-Bak (Ab-2), Human (Mouse)	AM04	100 µg*
Anti-Bak (2-14), Human (Rabbit)	196150	100 µg
Anti-Bax (Ab-1), Human (Rabbit)	PC66	100 µg*
Anti-Bax (Ab-2), Human (Mouse)	AM13	100 µg
Anti-Bax (Ab-3), Human (Mouse)	AM32	100 µg
Anti-Bax (Ab-4), Human (Rabbit)	PC103	100 µg*
Anti-Bax (Ab-5), Mouse (Mouse)	AM42	100 µg*
Anti-Bax (Ab-6), Human (Mouse)	AM44	100 µg*
Anti-Bax (44-62), Human (Rabbit)	196821	100 µl
Bax Peptide	PP51	100 µg
Anti-4-1BB, Human (Rabbit)	PC668	100 µg
Anti-Bcl-2 (Ab-1), Human (Mouse)	OP60	100 µg*
Anti-Bcl-2 (Ab-2), Human (Rabbit)	PC68	100 µg*
Bcl-2 Peptide	PP52	100 µg
Anti-Bcl-2 (Ab-3), Human (Mouse)	OP91	100 µg
Anti-Bcl-2 (Ab-4), Mouse (Mouse)	AM43	100 µg*
Bcl-2 Family Antibody Sampler Kit	ASK12	1 kit
Anti-Bcl-2α (Ab-1), Human (Mouse)	AM58	100 µg
Anti-Bcl-2α (Ab-2), Human (Mouse)	AM59	100 µg
Anti-Bcl-3 (328-344), Human (Rabbit)	197215	50 µg
Anti-Bcl-10, Human (Rabbit)	PC678	100 µg
Anti-Bcl-ω (16-29), Human (Rabbit)	197209	100 µg
Anti-Bcl-ω, Human (Rat)	AM54	100 µg*
Anti-Bcl-x (Ab-1), Human (Rabbit)	PC67	100 µg*
Anti-Bcl-x (Ab-3), Human (Rabbit)	PC104	100 µl
Bcl-x Peptide	PP53	100 µg
Anti-Bcl-x _L (Ab-2), Human (Mouse)	AM05	100 µg
Anti-Bcl-x _S (Ab-1), Human (Rabbit)	PC89	100 µg
Anti-Cleaved Bid, Mouse (Rabbit)	PC645	100 µg
Anti-Bim, Human (Rat)	AM53	50 µg
Anti-Bim (22-40), Human (Rabbit)	202000	100 µg

* Trial size available

Product	Cat. No.	Size
Anti-Bmf, Human and Mouse (Rabbit)	PC685	100 µg
Anti-Bnip3L, Human (Rabbit)	PC525	100 µg
Anti-Bok, Rat (Rabbit)	PC627	100 µg
Anti-Noxa, Human (Mouse)	OP180	100 µg
Anti-PUMA, Human (Rabbit)	PC686	100 µg

Other Apoptosis-Related Antibodies

Anti-A20, Human (Mouse)	AM63	100 µg
Anti-ACINUS (Ab-1), Human (Rabbit)	PC551	100 µg*
Anti-ACINUS (Ab-2), Human (Rabbit)	PC552	100 µg*
Anti-ACINUS (Ab-3), Human (Rabbit)	PC553	100 µg*
Anti-ACINUS (Ab-4), Human (Rabbit)	PC554	100 µg*
Anti-Adenovirus 5 E1B 21 kDa (Rat)	DP07L	100 µg
Anti-Adenovirus 5 E1B 55 kDa (Rat)	DP08	100 µg
Anti-APRIL, Human (Rabbit)	PC677	100 µg
Apoptosis Antibody Sampler Kit	ASK06	1 kit
Anti-ARC (2-18), Human (Rabbit)	PC486	100 µg
Anti-ARC (191-208), C-Terminal, Human (Rabbit)	181320	100 µg
Anti-ASC/TMS1 (182-195), Human (Rabbit)	184040	100 µg
Anti-ASK1 (1360-1372), Human (Rabbit)	PC471	100 µg*
Anti-ASK1, C-Terminal (1356-1375), Human (Rabbit)	181400	100 µg
Anti-ATR (Ab-2), Human (Rabbit)	PC538	50 µl*
Anti-Bonzo, C-Terminal (319-338), Human (Rabbit)	203660	100 µg
Anti-BrdU (Ab-2) (Mouse)	NA20	100 µg
Anti-BrdU (Ab-3) (Mouse)	NA61	100 µg
Anti-CAD (Ab-1), Mouse (Rabbit)	PC412	100 µg*
Anti-CAD (205-221), Mouse (Rabbit)	205543	100 µg
Anti-CARD9, Human (Rabbit)	PC649	100 µg
Anti-CCR5, Human (Rabbit)	PC559	100 µg*
Anti-CCR8 (183-201) (Rabbit)	PC430	100 µg
Anti-CD95L, Human (Mouse), Fluorescein Conjugate	217952	120 T
Anti-CIDE-A, Mouse (Rabbit)	PC431	100 µg
Anti-CIDE-B, Mouse (Rabbit)	PC432	100 µg
Anti-D4-GDI, Human (Mouse)	AM66	50 µg
Anti-DAP3, Human (Rabbit)	PC628	100 µg
Anti-DAP5, Human (Rabbit)	PC660	100 µg
Anti-DAP Kinase 2 (356-370), Human (Rabbit)	251710	100 µg
Anti-DcR3, Human (Mouse)	AM74	100 µg
Anti-DEDAF, Human (Rabbit)	PC652	100 µg
Anti-DFF, C-Terminal (313-331), Human (Rabbit)	309525	100 µg
Anti-DFF, N-Terminal (2-21), Human (Rabbit)	309527	100 µg
Anti-DFF40, Human (Rabbit)	PC380	100 µg*

Caspases and Other Apoptosis-Related Tools

Other Apoptosis-Related Antibodies, cont.

Product	Cat. No.	Size
Anti-DFF45, Human (Rabbit)	PC366	100 µg*
Anti-DNase II, Human (Rabbit)	PC653	100 µg
Anti-DNase γ (Ab-1), Human (Mouse)	AM78	100 µg
Anti-DNase γ (Ab-2), Human (Mouse)	AM79	100 µg
Anti-DPC4/Smad4, Human (Mouse)	OP111	100 µg
Anti-DRAK1, Human (Rabbit)	PC487	100 µg
Anti-DRAK2, Human (Rabbit)	PC488	100 µg
Anti-DR3/TRAMP, C-Terminal (398-417), Human (Rabbit)	318200	100 µg
Anti-DR3/TRAMP, Extracellular Domain (59-77), Human (Rabbit)	318203	100 µg
Anti-DR3/TRAMP, N-Terminal (25-40), Human (Rabbit)	318206	100 µg
Anti-DR4/TRAIL, C-Terminal (427-445), Human (Rabbit)	318209	100 µg
Anti-DR4/TRAIL, N-Terminal (1-20), Human (Rabbit)	318212	100 µg
Anti-Effector Cell Protease Receptor-1, Human (Rabbit)	325050	50 µg
Anti-EMAPII (Ab-1), Human (Rabbit)	PC657	100 µg
Anti-EMAPII (Ab-2), Mouse (Rabbit)	PC658	100 µg
Anti-Endonuclease G (Ab-1), Human (Rabbit)	PC684	100 µg
Anti-ERCC1 (Ab-1), Human (Mouse)	NA68	50 µg
Anti-ESX (Ab-1), Human (Rabbit)	PC624	100 µg
Anti-F1Aα (609-622), Human (Rabbit)	321240	100 µg
Anti-FADD (125-140), Human (Rabbit)	341282	100 µg
Anti-Fas (Ab-1), Human (Rabbit)	PC69	100 µg
Anti-Fas (Ab-2), Human (Mouse)	AM01L	100 µg*
Anti-Fas (Ab-6), Mouse (Rabbit)	PC480	100 µl*
Anti-Fas (29-44), Mouse (Rabbit)	341289	100 µg
Fas Peptide	PP62	100 µg
Anti-Fas Ligand (Ab-1), Human (Rabbit)	PC78	100 µg
Anti-Fas Ligand (Ab-3), Human (Rabbit)	PC105	100 µg
Anti-Fas Ligand (Ab-5), Human (Mouse)	AM29	100 µg
Anti-Fas Ligand (Ab-7), Human (Mouse)	AM40	100 µg
Fas Ligand Peptide	PP61	100 µg
Anti-I-FLICE/CASPER, Human (Rabbit)	PC401	100 µg
Anti-FLIP, C-Terminal (447-464), Human (Rabbit)	343002	100 µg
Anti-FLIP, C-Terminal (449-465), Mouse (Rabbit)	343004	100 µg
Anti-FLIPγ/δ (191-209), Human (Rabbit)	343006	100 µg
Anti-Cleaved α-Fodrin (Asp ¹¹⁸⁵), Human (Rabbit)	AP1011	50 µl
Anti-c-Fos (Ab-1), Human (Mouse)	OP17	200 µg
Anti-c-Fos (Ab-1), Human (Mouse)	OP17L	200 µg
Anti-c-Fos (Ab-2), Human (Rabbit)	PC05	100 µg*
Anti-c-Fos (Ab-2), Human (Rabbit)	PC05L	100 µg
Anti-c-Fos (Ab-3), Human (Mouse)	OP53	100 µg

Product	Cat. No.	Size
Anti-c-Fos (Ab-4), Human (Mouse)	OP54	100 µg
Anti-c-Fos (Ab-5), Human (Rabbit)	PC38	100 µl*
c-Fos Peptide-1	PP09	100 µg
c-Fos Peptide-2	PP10	100 µg
Anti-GADD34, Human (Goat)	PC720	100 µg
Anti-Granzyme B, Human (Mouse)	AM52	50 µg
Anti-ICAD (2-21), N-Terminal, Mouse (Rabbit)	400100	100 µg
Anti-ICAD(S) (Ab-2), Mouse (Rabbit)	PC469	100 µg
Anti-ICAD/DFF, C-Terminal (313-331), Human (Rabbit)	309525	100 µg
Anti-ICAD/DFF45, N-Terminal (2-21), Human (Rabbit)	309527	100 µg
Anti-Cleaved Interleukin-1β (Asp ¹¹⁶), Human (Rabbit)	AP1016	50 µl
Anti-JunB, Human (Rabbit)	PC28	100 µg
Anti-Lamin B, Human (Mouse)	NA12	100 µg
Anti-Cleaved Lamin A (Asp ²³⁰), Human (Rabbit)	AP1017	50 µl
Anti-Livin, Human (Goat)	PC724	100 µg
Anti-MADD, C-Terminal (1570-1588), Human (Rabbit)	441850	100 µg
Anti-MDM2 (Ab-1), Human (Mouse)	OP46	100 µg*
Anti-MLH1 (Ab-1), Human (Mouse)	NA28	100 µg*
Anti-MLH1 (Ab-2), Human (Rabbit)	PC56	100 µg*
Anti-MSH2 (Ab-1), Human (Mouse)	NA26	100 µg*
Anti-MSH2 (Ab-2), Human (Mouse)	NA27	100 µg*
Anti-MSH2 (Ab-3), Human (Rabbit)	PC57	100 µg
Anti-MTBP (Ab-1), Human (Rabbit)	PC654	100 µg
Anti-c-Myc (Ab-1), Human (Mouse)	OP10	200 µg*
Anti-c-Myc (Ab-1), Human (Mouse)	OP10L	200 µg
Anti-c-Myc (Ab-1), Human (Mouse) Fluorescein Conjugate	OP10F	100 µg
Anti-c-Myc (Ab-2), Human (Mouse)	OP30	100 µg*
Anti-c-Myc (Ab-2), Human (Mouse)	OP30L	100 µg
Anti-c-Myc (Ab-3), Human (Mouse)	OP31	100 µg
Anti-c-Myc (Ab-3), Human (Mouse)	OP31L	100 µg
Anti-c-Myc, Phospho-Specific (Thr ⁵⁸ , Ser ⁶²), Human (Rabbit)	PC515	50 µl
c-Myc Peptide	PP06	100 µg
Anti-N-Myc, Human (Mouse)	OP13	100 µg
Anti-NRAGE, Rat (Rabbit)	AP1006	100 µl
Anti-NuMA (Ab-1), Human (Mouse)	NA08	100 µg
Anti-NuMA (Ab-2), Human (Mouse)	NA09L	100 µg
Anti-p16 (Ab-1), Human (Mouse)	NA29	100 µg
Anti-p51A, Human (Rabbit)	PC472	100 µl
Anti-p51B, Human (Rabbit)	PC473	100 µl
Anti-p63 (Ab-1), Human (Mouse)	OP132	100 µg*
Anti-p73 (Ab-1), Human (Mouse)	OP108	100 µg*

* Trial size available

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Caspases and Other Apoptosis-Related Tools

Other Apoptosis-Related Antibodies, cont.

Product	Cat. No.	Size
Anti-p73 (Ab-1), Human (Mouse)	OP108L	100 µg
Anti-p73 (Ab-2), Human (Mouse)	OP109	100 µg*
Anti-p73 (Ab-2), Human (Mouse)	OP109L	100 µg
Anti-p73 (Ab-3), Human (Mouse)	OP110	100 µg
Anti-p73 (Ab-3), Human (Mouse)	OP110L	100 µg
Anti-p73 (Ab-4), Human (Rabbit)	PC385	50 µg
Anti-p73 (Ab-6), Human (Sheep)	PC433	50 µg
Anti-p110 Mitochondrial Protein, Human (Mouse)	AM67	100 µg
Anti-Peg3/Pw1, Mouse (Rabbit)	PC689	100 µl
Anti-Perforin, Human (Mouse)	516515	100 µg
Anti-Perforin, Human (Mouse) Fluorescein Conjugate	516516	120 T
Anti-PID/MTA2, Human (Rabbit)	PC656	100 µg
Anti-Porin 31HL (Ab-1), Human (Mouse)	529532	100 µg
Anti-Porin 31HL (Ab-2), Human (Mouse)	529534	100 µg
Anti-Porin 31HL (Ab-3), Human (Mouse)	529536	100 µg
Anti-Porin 31HL (Ab-4), Human (Mouse)	529538	100 µg
Anti-Porin (Ab-5), Human (Rabbit)	PC548	50 µg*
Anti-Prostate Apoptosis Response-4 (324-342), Rat (Rabbit)	539836	200 µg
Anti-pTEN (Ab-4), Human (Sheep)	PC623	250 µg
Anti-RAIDD (112-126), Human (Rabbit)	553198	100 µg
Anti-RAIDD, C-Terminal (181-199), Human (Rabbit)	553196	100 µg
Anti-RANK, Human (Mouse)	AM56	100 µg
Anti-RANKL, Mouse (Mouse)	AM57	100 µg
Anti-Rb (Ab-1) (Mouse)	OP28	100 µg*
Anti-Rb (Ab-1) (Mouse)	OP28L	100 µg
Anti-Rb (Ab-5), Human (Mouse)	OP66	100 µg
Anti-Rb (Ab-6), Human and Mouse (Mouse)	OP77	100 µg
Anti-Rb (Ab-11), Human (Mouse)	OP136	100 µg
Anti-RICK (11-30), N-Terminal, Human (Rabbit)	557200	100 µg
Anti-RIP, Human (Rabbit)	PC533	100 µg*
Anti-RIP2, Human (Rabbit)	PC534	100 µg*
Anti-RIP3 (473-486), Mouse (Rabbit)	557328	100 µg
Anti-Smac/DIABLO (222-237), Mouse (Rabbit)	567365	100 µg
Anti-Smac/DIABLO (Ab-1), Human (Rabbit)	PC574	50 µg*
Anti-Smac/DIABLO, Mouse (Rat)	567360	100 µg
Anti-SODD, Human (Rabbit)	PC490	100 µg
Anti-Survivin, Human (Rabbit)	574660	50 µg
Anti-Survivin (Ab-1), Human (Rabbit)	PC527	100 µg
Anti-SV40 T Antigen (Ab-1) (Mouse)	DP01	100 µg
Anti-SV40 T Antigen (Ab-1) (Mouse)	DP01L	100 µg
Anti-SV40 T Antigen (Ab-2) (Mouse)	DP02	200 µg
Anti-TAJ (Ab-1), Human (Rabbit)	PC576	50 µg*
Anti-Tankyrase, Human (Mouse)	575400	100 µg

* Trial size available; † Not for sale in Japan; T = Test

Product	Cat. No.	Size
Anti-TRADD, Human (Mouse)	AP1005†	100 µg
Anti-TRAF1, Mouse (Mouse)	AP1002†	100 µg
Anti-TRAF2, Mouse (Rabbit)	AP1003†	100 µg
Anti-TRAF6, Mouse (Rabbit)	AP1004†	100 µg
Anti-TRAIL, C-Terminal (261-277), Human (Rabbit)	616378	100 µg
Anti-TRAIL Receptor-1 (DR4) (Ab-1), Human (Rabbit)	PC397	100 µg
Anti-TRAIL Receptor-1 (DR4) (Ab-2), Human (Rabbit)	PC398	100 µg
Anti-TRAIL Receptor-2 (DR5) (Ab-1), Human (Rabbit)	PC392	100 µg
Anti-TRAIL Receptor-2 (DR5) (Ab-2) (Mouse)	AM62	100 µg*
Anti-TRAIL Receptor-2, N-Terminal (68-94), Human (Goat)	616380	100 µl
Anti-TRAIL Receptor-3, N-Terminal (73-103), Human (Goat)	616383	100 µl
TRAIL Receptor-3, N-Terminal (73-103) Blocking Peptide, Human	616384	100 µg
Anti-TRAIL Receptor-4 (DcR2) (Ab-1), Human (Rabbit)	PC391	100 µg
Anti-TRAIL Receptor-4 (249-263), Human (Rabbit)	616396	100 µg
Anti-TRAMP (DR3) (Ab-1), Human (Rabbit)	PC399	100 µg
Anti-TRAMP (DR3) (Ab-2), Human (Rabbit)	PC400	100 µg
Anti-WWOX (N1) (89-107), Mouse (Rabbit)	AP1007	100 µl
Anti-WWOX (N2) (28-42), Mouse (Rabbit)	AP1008	100 µl
Anti-WWOX, Phospho-Specific (Tyr ³³), Mouse (Rabbit)	AP1009	100 µl
Anti-XIAP (Ab-2), Human (Mouse)	AM81	100 µg
Anti-XPA (Ab-1), Human (Mouse)	NA66	50 µg
Anti-XPA (Ab-2), Human (Mouse)	NA69	100 µg
Anti-XPG, Human (Mouse)	NA67	50 µg

Caspases

Caspase-1, Human, Recomb., <i>E. coli</i>	218783	3000 U
Caspase-2, Human, Recomb., <i>E. coli</i>	218813	100 U
Caspase-3, Human, Recomb., <i>E. coli</i>	235417	5000 U
Caspase-3, Mouse, Recomb., <i>E. coli</i>	235414	100 U
Caspase-3, Rat, Recomb., <i>E. coli</i>	235415	100 U
Procaspase-3, Human, Recomb., <i>E. coli</i>	529660	5 µg
Procaspase-3, Mouse, Recomb., <i>E. coli</i>	529662	5 µg
Caspase-4, Human, Recomb., <i>E. coli</i>	218720	3000 U
Caspase-5, Human, Recomb., <i>E. coli</i>	218725	3000 U
Caspase-6, Human, Recomb., <i>E. coli</i>	218799	100 U
Caspase-7, Human, Recomb., <i>E. coli</i>	218800	100 U
Procaspase-7, Human, Recomb., <i>E. coli</i>	529665	5 µg
Caspase-8, Human, Recomb., <i>E. coli</i>	218769	3000 U
Caspase-9, Human, Recomb., <i>E. coli</i>	218807	100 U

Caspases and Other Apoptosis-Related Tools

Caspases, cont.

Product	Cat. No.	Size
Caspase-10, Human, Recomb., <i>E. coli</i>	218785	3000 U
Procaspase-14, Human, Recomb., <i>E. coli</i>	529670	5 µg
Caspase Enzymes Set, Group I	218816	1 set
Caspase Enzymes Set, Group II	218817	1 set
Caspase Enzymes Set, Group III	218819	1 set
Caspase Family Enzyme Set I, Human, Recomb., <i>E. coli</i>	218812	1 set

Other Apoptosis-Related Enzymes and Proteins

4-1BB/Fc Chimera, His•Tag® Recomb. Protein	PF123	100 µg
BAFF, Human, Recomb.	PF088	10 µg
Bcl-2, C-Terminal Truncated, His•Tag®, Recomb. Protein	PF126	50 µg
Bcl-10, Human, Wild-Type, Recomb.	197222	6000 U
Bcl-w, C-Terminal Truncated, His•Tag®, Recomb. Protein	PF127	50 µg
Bcl-x _L , C-Terminal Truncated, His•Tag®, Recomb. Protein	PF128	50 µg
BCMA/Fc, Human, Recomb.	PF089	50 µg
Bid, Human, Recomb., <i>E. coli</i>	PF129	50 µg
Bid, Caspase-8-Cleaved, Human Recomb., <i>E. coli</i>	PF130	50 µg
CD40-Fc, Human, Recomb.	PF090	50 µg
CD40 Ligand Kit	PF091	1 kit
DcF3/Fc Chimera, Human Recomb.	PF131	100 µg
Fas, Intracellular Death Domain, Human, Recomb., <i>E. coli</i>	341288	5 µg
Fas Ligand Recomb. Protein	PF033	5 µg
Fas Ligand Plus, Human, Recomb.	PF092	5 µg
Granzyme A, Human, Recomb., <i>E. coli</i>	368044	10 µg
Granzyme B, Human, Cell Culture-Derived	368042	2 µg
Granzyme B, Human, Recomb., <i>E. coli</i>	368043	10 µg
Granzyme K, Human, Recomb., <i>E. coli</i>	368046	10 µg
IGFBP-3, Human, Recomb.	PF135	25 µg
Osteoprotegerin/Fc Chimera, His•Tag®, Human, Recomb., <i>Spodoptera frugiperda</i>	499270	100 µg
Osteoprotegerin/Fc Chimera, His•Tag®, Mouse, Recomb., Mouse	499272	100 µg
p53 (1-342, C-Terminal Deletion), Recomb.	506146	5000 U
p53, Wild-Type, Recomb.	506147	5000 U
Poly(ADP-Ribose)	528816	1 µg
Poly(ADP-Ribose) Glycohydrolase, Calf Thymus	528810	100 mU
Poly(ADP-Ribose) Polymerase, Bovine	528818	100 µl
Smac/DIABLO, Human, Recomb., <i>E. coli</i>	PF136	100 µg
TAJ/Fc Chimera, Recomb. Protein	PF134	100 µg
TRAIL, Human, Recomb., <i>E. coli</i>	616375	100 µg
TRAIL, Human, Recomb., <i>E. coli</i>	616376	10 µg
XIAP, Human, Recomb., <i>E. coli</i>	PF137	50 µg

Dyes, Stains, and Probes for Apoptosis Research

Product	Cat. No.	Size
Acridine Orange	113000	1 g
Actinomycin D, 7-Amino-	129935	1 mg
BCECF/AM	216254	1 mg
Bisbenzimidazole H 33258 Fluorochrome, Trihydrochloride	382061	100 mg 250 mg 1 g
Bisbenzimidazole H 33342 Fluorochrome, Trihydrochloride	382065	100 mg 250 mg 1 g
Chromomycin A ₃	230752	10 mg
Dansylamidoethylcyclen	251690	5 mg
DAPI, Dihydrochloride	268298	10 mg
DASPEI	251670	100 mg
3,3'-Dihexyloxycarbocyanine Iodide	305110	50 mg
Ethidium Bromide, 10 mg Tablets	331566	1 kit
Ethidium Bromide, 100 mg Tablets	331567	1 kit
Ethidium Homodimer	331580	1 mg
FLUO 3, Pentaammonium Salt	343244	500 µg 1 mg
FLUO 3/AM	343242	1 mg
FURA 2, Pentasodium Salt	344900	250 µg 1 mg
FURA 2/AM	344905	1 set 250 µg 1 mg 5 mg
FURA-PE3/AM	344911	1 set
INDO 1, Pentasodium Salt	402094	1 mg
INDO 1/AM	402096	1 set 1 mg
INDO 1FF/AM	402098	1 set
JC-1	420200	5 mg
Nonyl Acridine Orange	488290	50 mg
Propidium Iodide	537059	50 mg 100 mg 250 mg 1 g
Propidium Iodide Solution	537060	5 ml
Rhodamine 123	555505	50 mg
Ru360	557440	1 set 500 µg 1 mg
TMRM	605100	10 mg
Zinquin Ethyl Ester	691600	1 mg
Zinquin, Free Acid	691605	5 mg



Caspases and Other Apoptosis-Related Tools

Positive Controls for Antibodies in Apoptosis Research

Product	Cat. No.	Size
HL-60 Cell Extract, Induced	383500	200 µl
HL-60 Cell Extract, Uninduced	383510	200 µl
HL-60 Cell Pellet	WB42	10 lane
INSTA-Blot™, Human Cell Lines	407210	1 blot
INSTA-Blot™, Human Tissues	407211	1 blot
INSTA-Blot™, Mouse Tissues	407212	1 blot
INSTA-Blot™, Rat Tissues	407213	1 blot
INSTA-Blot™, Apoptotic HeLa Cells, Camptothecin-Treated	407214	1 blot
INSTA-Blot™, Apoptotic HeLa Cells, Etoposide-Treated	407215	1 blot
INSTA-Blot™, Apoptotic HeLa Cells, Staurosporine-Treated	407216	1 blot
INSTA-Blot™, Apoptotic HL-60 Cells, Camptothecin-Treated	407217	1 blot
INSTA-Blot™, Apoptotic HL-60 Cells, Etoposide-Treated	407218	1 blot
INSTA-Blot™, Apoptotic HL-60 Cells, Staurosporine-Treated	407219	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, Camptothecin-Treated	407220	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, Etoposide-Treated	407221	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, Anti-Fas-Treated	407222	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, Interleukin-1-Stimulated	407223	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, Staurosporine-Treated	407224	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, Tumor Necrosis Factor- α -Stimulated	407225	1 blot
INSTA-Blot™, Apoptotic Jurkat Cells, UV-Stimulated	407226	1 blot

Inducers of Apoptosis

A23187, Free Acid, <i>Streptomyces chartreusensis</i>	100105	1 mg 5 mg 10 mg 50 mg
A23187, Mixed Calcium-Magnesium Salt	100106	10 mg
N-Acetyl-L-cysteine	106425	5 g
Actinomycin D, <i>Streptomyces</i> sp.	114666	1 set 5 mg
Advanced Glycation Endproduct-BSA	121800	10 mg
AG 17	658425	5 mg
AG 82	658400	5 mg
AG 490	658401	5 mg
AG 1714	121780	25 mg
ALLM	208721	25 mg
ALLN	208719	5 mg 25 mg

Product	Cat. No.	Size
ALLN in Solution	208750	5 mg
5-Aminoisoquinolinone, Hydrochloride	164300	1 mg 5 mg
3-Aminobenzamide	165350	100 mg
Anandamide	172100	5 mg
Anisomycin, <i>Streptomyces griseolus</i>	176880	10 mg
Antimycin A ₃	178205	10 mg
Antimycin A ₃ , 2-Methoxy-	178210	5 mg
Aphidicolin	178273	1 mg
Apoptosis Activator I	178491	5 mg
Apoptosis Inducer Set I	178486	1 set
Apoptosis Inducer Set II	178489	1 set
5-Aza-2'-Deoxycytidine	189825	25 mg
3-BAABE	195000	1 mg
Bafilomycin A1, <i>Streptomyces griseus</i>	196000	10 µg
Bak BH3 Fusion Peptide, Cell-Permeable	196350	500 µg
Bak BH3 Fusion Peptide, Cell-Permeable, Negative Control	196355	500 µg
BAPTA/AM	196419	25 mg 100 mg
bcl-2 Antisense Oligonucleotide, Sodium Salt	197208	50 nmol
bcl-2 Antisense Oligonucleotide, Control, Sodium Salt	197210	50 nmol
bcl-2 Antisense Oligonucleotide, Fluorescein-Labeled, Sodium Salt	197211	10 nmol
bcl-2 Antisense Oligonucleotide Set	197212	1 set
Bcl-2 Binding Peptide, Cell-Permeable	197220	1 mg
Bcl-2 Binding Peptide, Cell-Permeable, Negative Control	197225	1 mg
Bcl-2 Inhibitor	197330	5 mg
bcl-x ₅ Antisense Oligonucleotide, Sodium Salt	197203	50 nmol
bcl-x ₅ Antisense Oligonucleotide, Fluorescein-Labeled, Sodium Salt	197206	10 nmol
bcl-x ₅ Antisense Oligonucleotide, Sodium Salt, Negative Control	197205	50 nmol
bcl-x ₅ Antisense Oligonucleotide Set	197214	1 set
Berberine, Hemisulfate	200400	1 g
Bestatin Methyl Ester	200485	5 mg
Betulinic Acid	200498	5 mg
BH3I-1	286890	5 mg
BH3I-1'	286892	5 mg
BH3I-2'	286891	1 mg 5 mg
Bleomycin Sulfate, <i>Streptomyces verticillus</i>	203401	15 U
CAFdA	205500	1 mg
Calphostin C, <i>Cladosporium cladosporioides</i>	208725	50 µg 100 µg
Camptothecin, <i>Camptotheca acuminata</i>	208925	50 mg

Caspases and Other Apoptosis-Related Tools

Inducers of Apoptosis, cont.

Product	Cat. No.	Size
CAPE	211200	25 mg
Cepharanthine, <i>Stephania cepharantha Hayata</i>	219500	1 g
Chelerythrine Chloride	220285	5 mg
2-Chloro-2'-deoxyadenosine	220467	10 mg
2-Chloro-2'-deoxyadenosine 5'-Triphosphate, Tetralithium Salt	220469	1 mg
Colcemid	234109	5 mg
Colchicine, <i>Colchicum autumnale</i>	234115	1 g 5 g
Corticosterone	235135	1 g
Cycloheximide	239763	1 g 5 g
Cycloheximide, High Purity	239764	100 mg 1 g
Cyclophosphamide Monohydrate	239785	1 g
Cytotrienin A, <i>Streptomyces</i> sp.	250780	100 µg
Cyclosporin A, <i>Tolypocladium inflatum</i>	239835	100 mg
Daunorubicin, Hydrochloride	251800	5 mg
Dexamethasone	265005	100 mg
2,3-Dichloro-5,8-dihydroxy-1, 4-naphthoquinone	287805	50 mg
3,3'-Diindolylmethane	309900	100 mg
Dolastatin 15	320900	1 mg
Doxorubicin, Hydrochloride	324380	10 mg
Erbstatin Analog	324930	1 mg
ET-18-OCH ₃	341207	5 mg
Etoposide	341205	25 mg
Etoposide Phosphate	341206	5 mg
5-Fluorouracil	343922	1 g
Folimycin, <i>Streptomyces</i> sp.	344085	10 µg
Forskolin, <i>Coleus forskohlii</i>	344270	10 mg 25 mg 50 mg
Gambogic Acid, <i>Garcinia hanburyi</i>	345701	25 mg
Genistein	345834	20 mg 50 mg
[6]-Gingerol, <i>Zingiber officinale</i>	345868	5 mg
Glycodeoxycholic Acid, Sodium Salt	361311	5 g
H-7, Dihydrochloride	371955	1 mg 5 mg
H-89, Dihydrochloride	371963	1 mg
HA14-1	371971	1 set 2 mg
Harringtonine, <i>Cephalotaxus hainanensis</i>	372125	5 mg
Hexokinase II VDAC Binding Domain Peptide	376815	1 mg
Hexokinase II VDAC Binding Domain Peptide, Cell-Permeable	376816	1 mg
Homoharringtonine, <i>Cephalotaxus hainanensis</i>	384500	5 mg
4-Hydroxynonenal	393204	1 mg

Product	Cat. No.	Size
4-Hydroxyphenylretinamide	390900	5 mg
Hydroxyurea	400046	5 g
Indanocine	402080	1 mg
Ionomycin, Free Acid, <i>Streptomyces conglobatus</i>	407950	1 mg 5 mg 10 mg
Ionomycin, Calcium Salt, <i>Streptomyces conglobatus</i>	407952	1 mg 5 mg 10 mg 25 mg
Kaempferol	420345	25 mg
KN-93	422708	1 mg 5 mg
Licochalcone-A, Synthetic	435800	10 mg 50 mg
Methotrexate	454125	100 mg
Miltefosine	475841	50 mg
Mitomycin C, <i>Streptomyces caespitosus</i>	47589	2 mg
Mitomycin C, <i>Streptomyces caespitosus</i> , Carrier-Free	475820	10 mg
MT-21	475952	10 mg
MT-21, Negative Control	475953	5 mg
Muristerone A, <i>Ipomoea</i> sp.	475946	1 mg
Okadaic Acid, <i>Prorocentrum concavum</i>	495604	10 µg 25 µg 100 µg
Oligomycin	495455	10 mg
p53 Activator, Cell-Permeable	506131	500 µg
p53, MDM-2 Binding Domain, N-Terminal 17-26, Cell-Permeable	506136	500 µg
Paclitaxel, <i>Taxus brevifolia</i>	580555	5 mg 25 mg 100 mg
Penciclovir	516090	100 mg
Phorbol-12-myristate-13-acetate	524400	1 mg 5 mg 10 mg 25 mg
(Pivaloyloxy)methyl Butyrate	527998	25 mg
PRIMA-1	530050	10 mg
Puromycin, Dihydrochloride	540222	25 mg 100 mg
1-Pyrrolidinecarbodithioic Acid, Ammonium Salt	548000	100 mg
Quercetin, Dihydrate	551600	100 mg
Rapamycin	553210	100 µg 1 mg
(-)-Reveromycin B, Synthetic	554719	50 µg
α-Sarcin, <i>Aspergillus giganteus</i>	PF121	1 mg
Scriptaid	565730	5 mg
Smac-N7 Peptide	567370	1 mg 5 mg
Smac-N7 Peptide, Cell-Permeable	567375	1 mg



Caspases and Other Apoptosis-Related Tools

Inducers of Apoptosis, cont.

Product	Cat. No.	Size
SNAP	487910	1 set 20 mg
SNOG	487920	1 set 10 mg 50 mg
Sodium Butyrate	567430	250 mg
Sodium 4-Phenylbutyrate	567616	100 mg
Spermine, Tetrahydrochloride	5677	5 g
D-erythro-Sphingosine, Free Base, Bovine Brain	567725	10 mg
D-erythro-Sphingosine, Free Base, Bovine Brain, High Purity	567726	10 mg
D-erythro-Sphingosine, N-Acetyl-	110145	5 mg
D-erythro-Sphingosine, N,N-Dimethyl-	310500	5 mg
D-erythro-Sphingosine, N-Hexanoyl-	376650	5 mg
D-erythro-Sphingosine, N-Octanoyl-	219540	5 mg
Staurosporine, <i>Streptomyces</i> sp.	569397	100 µg 250 µg
Sulfasalazine	573500	100 mg
Sulindac	574100	1 g
Tamoxifen Citrate	579000	100 mg
Tamoxifen, 4-Hydroxy-, (Z)-	579002	5 mg
Thapsigargin	586005	1 mg
α-Toxin, <i>Staphylococcus aureus</i>	616385	250 µg
TRAIL, Human, Recomb., <i>E. coli</i>	616375	100 µg
O-Trensox	499300	10 mg
Topotecan, Hydrochloride	614800	1 mg
Valinomycin, <i>Streptomyces fulvissimus</i>	676377	25 mg 100 mg
(±)-Verapamil, Hydrochloride	676777	100 mg
Veratridine	676950	5 mg
Vitamin E Succinate	679130	100 mg
YO-2	688190	5 mg

Caspase Inhibitors

Caspase Inhibitor Set I	235429	1 set
Caspase Inhibitor Set II	218772	1 set
Caspase Inhibitor Set III	218806	1 set
Caspase Inhibitor Set IV	218825	1 set
Caspase Inhibitor I	627610 [¥]	1 mg
Caspase Inhibitor I, Biotin Conjugate	218742	1 mg
Caspase Inhibitor II	218735	1 mg
Caspase Inhibitor II, Cell-Permeable	218830	1 mg
Caspase Inhibitor III	218745	250 µg 1 mg
Caspase Inhibitor IV	218784	5 mg
Caspase Inhibitor V, Biotin Conjugate	219000	500 µg
Caspase Inhibitor VI	219007	250 µg 1 mg

Caspase Inhibitor VII	218726	1 mg
Caspase Inhibitor VIII	218729	1 mg
Caspase Inhibitor, Negative Control	342000	1 mg 5 mg
Caspase-1 Inhibitor I	400010	1 mg 5 mg
Caspase-1 Inhibitor I, Cell-Permeable	400011	1 mg
Caspase-1 Inhibitor II	400012	5 mg
Caspase-1 Inhibitor II, Biotin Conjugate	400022	5 mg
Caspase-1 Inhibitor III, Biotin Conjugate	400024	5 mg
Caspase-1 Inhibitor IV	400015	1 mg
Caspase-1 Inhibitor V	400019	5 mg
Caspase-1 Inhibitor VI	218746	250 µg 1 mg
Caspase-1 Inhibitor VII, Biotin Conjugate	218786	5 mg
Caspase-1 Inhibitor VIII	218727	500 µg
Caspase-2 Inhibitor I	218744	250 µg 1 mg
Caspase-2 Inhibitor II	218814	1 mg 5 mg
Caspase-3 Inhibitor I	235420	1 mg 5 mg
Caspase-3 Inhibitor I, Biotin Conjugate	235422	1 mg
Caspase-3 Inhibitor I, Cell-Permeable	235423	1 mg
Caspase-3 Inhibitor I, Cell-Permeable, in Solution	235427	1 mg
Caspase-3 Inhibitor II	264155 [¥]	250 µg 1 mg
Caspase-3 Inhibitor II in Solution	264156 [¥]	250 µg
Caspase-3 Inhibitor II, Biotin Conjugate	218747	1 mg
Caspase-3 Inhibitor III	218750	1 mg 5 mg
Caspase-3 Inhibitor IV	235421	1 mg 5 mg
Caspase-3 Inhibitor V	219002	1 mg
Caspase-3/7 Inhibitor I	218826	1 mg
Caspase-3 Processing Inhibitor	218787	1 mg
Caspase-4 Inhibitor I	218755	1 mg
Caspase-4 Inhibitor I, Cell-Permeable	218766	1 mg
Caspase-5 Inhibitor I	218753	250 µg 1 mg
Caspase-6 Inhibitor I	218757	250 µg 1 mg
Caspase-6 Inhibitor II	218758	5 mg
Caspase-6 Inhibitor II, Cell-Permeable	218767	1 mg
Caspase-8 Inhibitor I, Cell-Permeable	218773	1 mg
Caspase-8 Inhibitor II	218759	250 µg 1 mg
Caspase-8 Inhibitor II in Solution	218840	250 µg
Caspase-9 Inhibitor I	218761	250 µg 1 mg

[¥] Sold under license of U.S. Patents 5,210,272 and 5,344,939

Caspases and Other Apoptosis-Related Tools

Caspase Inhibitors, cont.

Product	Cat. No.	Size
Caspase-9 Inhibitor I in Solution	218841	250 µg
Caspase-9 Inhibitor II, Cell-Permeable	218776	1 mg
Caspase-9 Inhibitor III	218728	1 mg
Caspase-13 Inhibitor I	219005	1 mg
Caspase-13 Inhibitor II	219009	250 µg 1 mg
Caspase Inhibitor, Negative Control	342000	1 mg 5 mg

Other Inhibitors of Apoptosis

Aurintricarboxylic Acid	189400	100 mg
Apoptosis Inhibitor	178488	10 mg
Bax-Inhibiting Peptide, V5	196810	5 mg
Bax-Inhibiting Peptide, Negative Control	196811	5 mg
Bcl-2 Inhibitor	197330	5 mg
Bcl-x _L BH4 ₄₋₂₃ , Human, Cell-Permeable	197217	1 mg
Caffeine	205548	500 g
Calpain Inhibitor III	208722	25 mg
Calpain Inhibitor IV	208724	1 mg
Calpain Inhibitor V	208726	1 mg
Calpain Inhibitor VI	208745	1 mg 5 mg
Calpain Inhibitor Set	208733	1 set
Calyculin A, <i>Discothermia calyx</i>	208851	10 µg
Caspase Active Site Peptide	235416	5 mg
CrmA, Recombinant	PF122	100 µg
Cyclosporine A, <i>Tolypocladium inflatum</i>	239835	100 mg
3,4-Dichloroisocoumarin	287815	10 mg
Diisopropylfluorophosphate	30967	1 g
Disulfiram	322150	1 g
EMAP II Inhibitor	324678	1 mg
N-Ethylmaleimide	34115	5 g
Genistein	345834	20 mg 50 mg
Granzyme B Inhibitor I	368050	1 mg
Granzyme B Inhibitor II	368055	1 mg
Granzyme B Inhibitor IV	368056	1 mg
Group III Caspase Inhibitor I	368620	1 mg
Group III Caspase Inhibitor II	368625	1 mg
Herbimycin A, <i>Streptomyces</i> sp.	375670	100 µg
Humanin, Human, Synthetic	400140	1 mg
IL-1β Inhibitor	400700	1 mg
Leupeptin, Hemisulfate	108975	5 mg 10 mg 25 mg 50 mg 100 mg
Midkine, Human, Recomb., <i>E. coli</i>	475833	5 µg
Noxa Antisense Oligonucleotide, Sodium Salt	492006	50 nmol

Product	Cat. No.	Size
Noxa Antisense Oligonucleotide, Negative Control, Sodium Salt	492008	50 nmol
Noxa Antisense Oligonucleotide, Fluorescein-Labeled, Sodium Salt	492009	10 nmol
Omi/HtrA2 Protease Inhibitor, Ucf-101	496150	10 mg
p53 Antisense Oligonucleotide, Sodium Salt	506140	50 nmol
p53 Antisense Oligonucleotide, Fluorescein-Labeled, Sodium Salt	506141	10 nmol
p53 Antisense Oligonucleotide, Negative Control, Sodium Salt	506142	50 nmol
p53 Antisense Oligonucleotide, Negative Control, Fluorescein-Labeled, Sodium Salt	506143	10 nmol
Phenylarsine Oxide	521000	250 mg
Phenylmethylsulfonyl Fluoride	52332	1 g 5 g 25 g
Phorbol, 12,13-Dibutyrate	524390	1 mg 5 mg
Pifithrin-α	506132	5 mg 10 mg
Pifithrin-α, Cyclic-	506134	10 mg
1-Pyrrolidinecarbodithioic Acid, Ammonium Salt	548000	100 mg
Q-VD-OPh, Non-O-methylated	551476	1 mg
Spermine, Tetrahydrochloride	5677	5 g
Superoxide Dismutase, Bovine Erythrocytes	574594	50 KU
N ^α -Tosyl-Lys Chloromethyl Ketone, Hydrochloride	616382	50 mg 250 mg
(±)-Verapamil, Hydrochloride	676777	100 mg
XIAP, Human, Recomb., <i>E. coli</i>	PF137	50 µg

Substrates for Caspases, Granzyme B, and Bcl-x_L

Bcl-x _L Assay Substrate, Fluorogenic	197216	1 mg
Caspase Active Site Peptide	235416	5 mg
Caspase Substrate I, Fluorogenic	218721	5 mg
Caspase Substrate Set I, Colorimetric	218780	1 set
Caspase Substrate Set II, Fluorogenic	218782	1 set
Caspase Substrate Set III, Colorimetric	218808	1 set
Caspase Substrate Set IV, Fluorogenic	218809	1 set
Caspase-1 Substrate I	400016	1 mg
Caspase-1 Substrate II, Fluorogenic	400018	500 µg
Caspase-1 Substrate III, Fluorogenic	400020	1 mg 5 mg
Caspase-1 Substrate IV, Colorimetric	400025	5 mg
Caspase-1 Substrate V, Fluorogenic	400017	1 mg
Caspase-1 Substrate VI, Fluorogenic	688225	1 mg 5 mg
Caspase-1 Substrate VIII, Fluorogenic	218737	1 mg
Caspase-1 Substrate IX, Fluorogenic	218738	1 mg
Caspase-1 Substrate X, Fluorogenic	218739	5 mg



Caspases and Other Apoptosis-Related Tools

Substrates for Caspases ... cont.

Product	Cat. No.	Size
Caspase-1 Substrate XI, Fluorogenic	218795	1 mg
Caspase-1 Substrate XI, Standard	218796	1 mg
Caspase-1 Substrate XII, Fluorogenic	688224	5 mg
Caspase-1 Substrate XIV, Water-Soluble, Colorimetric	218822	5 mg
Caspase-1 Substrate XV, Cell-Permeable Fluorogenic	218828	500 µg
Caspase-1/Caspase-4 Substrate I, Fluorogenic	400005	1 mg 5 mg
Caspase-1/Caspase-4 Substrate II, Fluorogenic	400006	1 mg 5 mg
Caspase-1/Caspase-4 Substrate III, Colorimetric	400007	5 mg
Caspase-1/Caspase-4 Substrate IV, Colorimetric	400008	5 mg
Caspase-2 Substrate I, Fluorogenic	218740	1 mg 5 mg
Caspase-2 Substrate II, Fluorogenic	218741	1 mg
Caspase-2 Substrate III, Fluorogenic	218815	5 mg
Caspase-2 Substrate IV, Colorimetric	218820	5 mg
Caspase-2 Substrate V, Fluorogenic	218818	1 mg 5 mg
Caspase-3 Substrate II, Fluorogenic	235425	1 mg 5 mg
Caspase-3 Substrate III, Fluorogenic	235426	1 mg
Caspase-3 Substrate IV, Fluorogenic	264150	1 mg 5 mg
Caspase-3 Substrate V, Fluorogenic	218751	1 mg
Caspase-3 Substrate VI, Fluorogenic	218752	1 mg
Caspase-3 Substrate VII, Fluorogenic	264151	1 mg 5 mg
Caspase-3 Substrate VIII, Water-Soluble, Colorimetric	218823	5 mg
Caspase-3 Substrate IX, Fluorogenic	218829	1 mg
Caspase-4 Substrate I, Fluorogenic	218756	1 mg
Caspase-4 Substrate II, Fluorogenic	218748	1 mg 5 mg
Caspase-5 Substrate II, Fluorogenic	218754	1 mg 5 mg
Caspase-6 Substrate I, Fluorogenic	218760	5 mg
Caspase-6 Substrate II, Colorimetric	218762	5 mg
Caspase-6 Substrate III, Fluorogenic	218763	5 mg
Caspase-6 Substrate V, Fluorogenic	218788	1 mg 5 mg
Caspase-6 Substrate VI, Fluorogenic	218789	1 mg 5 mg
Caspase-6 Substrate VII, Fluorogenic	219003	1 mg 5 mg
Caspase-7 Substrate I, Fluorogenic	218768	1 mg
Caspase-9 Substrate I, Fluorogenic	218765	1 mg 5 mg
Caspase-9 Substrate II, Colorimetric	218805	5 mg

Product	Cat. No.	Size
Caspase-13 Substrate I, Colorimetric	219006	5 mg
DRONC Substrate I, Fluorogenic	287990	1 mg 5 mg
DRONC Substrate II, Fluorogenic	287995	1 mg 5 mg
DRONC Substrate III, Fluorogenic	287996	1 mg 5 mg
DRONC Substrate IV, Fluorogenic	287997	1 mg 5 mg
D ₂ R	251300	1 mg
(DMe)2R	251305	1 mg
Granzyme B Enzyme Overlay Membrane	368045	1 kit
Granzyme B Substrate I, Colorimetric	368057	5 mg
Granzyme B Substrate II, Fluorometric	368059	1 mg 5 mg
Granzyme B Substrate IV	368063	5 mg
Granzyme B Substrate VI	368065	5 mg
Granzyme B Substrate VII	368066	5 mg
Granzyme B Substrate VIII, Colorimetric	368067	5 mg
Granzyme B Substrate IX, Fluorogenic	368068	1 mg 5 mg
Granzyme B Substrate X, Fluorogenic	368062	5 mg

Antibodies to Telomerase and Related Products

Anti-Klotho (Rabbit)	423500	50 µg
Anti-Telomerase, Catalytic Subunit, Human (Rabbit)	581402	50 µg
Anti-Telomerase, Catalytic Subunit, Mouse (Rabbit)	581400	100 µl
Anti-Telomerase, Catalytic Subunit, Yeast (Rabbit)	581404	50 µg
Anti-Telomerase (Ab-1), Human (Rabbit)	582000	100 µl
Anti-Telomerase (Ab-1), Mouse (Rabbit)	PC437	50 µl
Anti-Telomerase (Ab-2), Human (Rabbit)	582005	100 µl
Anti-Telomeric Repeat Binding Factor-1, Human (Rabbit)	581420	50 µg
Anti-Telomeric Repeat Binding Factor-1, Mouse (Rabbit)	581421	50 µg
Anti-Telomeric Repeat Binding Factor-1 (Ab-1), Human (Rabbit)	PC664	100 µg
Anti-Telomeric Repeat Binding Factor-2, Mouse (Rabbit)	581425	50 µg
Anti-Tin2 (Ab-1), Human (Mouse)	AM77	100 µg

Telomerase Inhibitors

3'-Azino-3'-deoxythymidine	194348	10 mg
AZT, Triphosphate, Tetralithium Salt	194950	1 µmol
3'-Deoxy-2',3'-didehydrothymidine	257920	25 mg
2',3'-Dideoxyguanosine	288114	10 mg

Caspases and Other Apoptosis-Related Tools

Telomerase Inhibitors, cont.

Product	Cat. No.	Size
3,3'-Diethyloxadycarbocyanine Iodide	295600	50 mg
Ellipticine, 9-Hydroxy-	324680	10 mg
(-)-Epigallocatechin Gallate	324880	10 mg
G-Quartet FRET Substrate, Sodium Salt	367500	5 nmol
Geldanamycin	345805	100 µg
H-7, Dihydrochloride	371955	1 mg 5 mg
PIPER	528120	10 mg
Telomerase Inhibitor I	581000	10 mg
Telomerase Inhibitor II, Sodium Salt	581002	50 nmol
Telomerase Inhibitor III, Sodium Salt	581004	150 nmol
Telomerase Inhibitor III, Negative Control, Sodium Salt	581007	150 nmol
Telomerase Inhibitor III, Fluorescein-Labeled, Sodium Salt	581008	75 nmol
Telomerase Inhibitor III, TAG-6 Set	581020	1 set
Telomerase Inhibitor V	581005	10 mg
Telomerase Inhibitor VI, Sodium Salt	581006	100 nmol
Telomerase Inhibitor VII, Sodium Salt	581009	75 nmol
Telomerase Inhibitor VIII	581010	10 mg
Telomerase Inhibitor IX	581011	10 mg
Telomerase Inhibitor Set I	581015	1 set
mTERT Antisense Oligonucleotide, Sodium Salt	582206	50 nmol
mTERT Antisense Oligonucleotide, Control, Sodium Salt	582207	50 nmol
mTERT Antisense Oligonucleotide, Fluorescein-Labeled, Sodium Salt	582208	10 nmol
mTERT Antisense Oligonucleotide Set	582210	1 set
TMPyP4	613560	25 mg

Antibodies for Proteasome Research

Anti-CHIP (Rabbit)	PC711	100 µl
Anti-E6-AP (Ab-1) (Rabbit)	PC543	50 µl*
Anti-20S Proteasome, α -Subunit, <i>Methanosarcina thermophila</i> (Rabbit)	539153	100 µl
Anti-26S Proteasome, S6'-Subunit, Human (Rabbit)	539170	100 µl
Anti-26S Proteasome, S7-Subunit, Human (Rabbit)	539171	100 µl
Anti-26S Proteasome, S8-Subunit, Human (Rabbit)	539172	100 µl
Anti-26S Proteasome, S10B-Subunit, Human (Rabbit)	539173	100 µl
Anti-Proteasome Activator PA28 γ Subunit (1-17), Human and Mouse (Rabbit)	539148	100 µg
Anti-Proteasome Activator PA28 α Subunit, Human (Rabbit)	539146	100 µg
Anti-Proteasome 20S α -Type 1 Subunit, Human (Rabbit)	539145	100 µg

* Trial size available

Product	Cat. No.	Size
Anti-20S Proteasome β -Subunit, <i>Methanosarcina thermophila</i> (Rabbit)	539156	100 µl
Anti-Proteasome 19S-Subunit S2, Human (Rabbit)	539166	100 µl
Anti-Proteasome 26S-Subunit S4, Yeast (Rabbit)	539167	100 µl
Anti-Proteasome 26S-Subunit S5A, Human (Rabbit)	539168	200 µl
Anti-26S Proteasome, S6-Subunit, Human (Rabbit)	539169	100 µl
Anti-26S Proteasome, S10B-Subunit, Human (Rabbit)	539173	100 µl
Anti-Proteasome Activator PA700 Subunit 10B, Human (Rabbit)	539147	100 µg
Anti-Ubc9, Human (Ab-1) (Rabbit)	PC131	100 µg
Anti-Ubiquitin, Bovine (Mouse)	662097	100 µg
Anti-Ubiquitin, Bovine (Rabbit)	662099	50 µl
Anti-Ubiquitin (Ab-1) (Mouse)	CC37	100 µl
Anti-Ubiquitin-Activating Enzyme E1A, Human (Rabbit)	662102	200 µl
Anti-Ubiquitin-Activating Enzyme E1B, Human (Rabbit)	662104	200 µl
Anti-Ubiquitin-Activating Enzyme E1A/E1B, Human (Rabbit)	662106	200 µl
Anti-Ubiquitin Conjugating Enzyme E2N, Human (Rabbit)	662118	100 µg
Anti-UCH-L1, Human (Goat)	ST1026	100 µl

Kits for Proteasome Research

20S Proteasome Assay Kit, SDS-Activated	539158	1 kit
26S Proteasome Degradation Kit	539159	1 kit
Ubiquitin Protein Conjugation Kit	662096	1 kit
Ubiquitinated Protein Enrichment Kit	662200	1 kit

Proteins and Enzymes for Proteasome Research

Fraction I, HeLa S3 Cells	344250	1 mg
Fraction II, HeLa S3 Cells	344255	1 mg
Fraction II, Rabbit Reticulocytes	344260	2.5 mg
Isopeptidase T, Rabbit	419700	25 µg
PA28 Activator, Rabbit	506280	10 µg
20S Proteasome, Rabbit	539154	10 µg
20S Proteasome, <i>Methanosarcina thermophila</i> , Recomb., <i>E. coli</i>	539150	500 µg
Ubiquitin-Agarose	662080	500 µl
Ubiquitin-Activating Enzyme E1, Rabbit	662070	10 µg
Ubiquitin C-Terminal Hydrolase, Rabbit	662090	10 µg
Ubiquitin Conjugating Enzyme 5a, GST-Fusion, Human, Recomb., <i>E. coli</i>	662091	50 µg
Ubiquitin Conjugating Enzyme 5b, GST-Fusion, Human, Recomb., <i>E. coli</i>	662092	50 µg



Proteins ... Proteasome Research, cont.

Product	Cat. No.	Size
Ubiquitin Conjugating Enzyme 6, His•Tag®, Human, Recomb., <i>E. coli</i>	662094	50 µg
Ubiquitin Conjugating Enzyme 10, His•Tag®, Human, Recomb., <i>E. coli</i>	662095	50 µg
Ubiquitin, GST-Fusion, Recomb., <i>E. coli</i>	662057	1 mg
Ubiquitin, His•Tag®, Recomb., <i>E. coli</i>	662060	1 mg
Ubiquitin K48R, Bovine, Recomb., <i>E. coli</i>	662062	1 mg
Ubiquitin K48R, His•Tag®, Human, Recombinant, <i>E. coli</i>	662064	1 mg
Ubiquitin, Methylated, Bovine	662063	1 mg

Inhibitors and Substrates for Proteasome Research

Aclacinomycin A, <i>Streptomyces galilaeus</i>	112270	50 mg
AdaAhX ₃ L ₃ VS	114802	250 µg
AdaLys(Bio)Ahx ₃ L ₃ VS	114803	250 µg
ALLN	208719	5 mg 25 mg
Epoxomicin, Synthetic	324800	100 µg
Glilotoxin, <i>Gladiolus fimbriatus</i>	371715	1 mg
Lactacystin, Synthetic	426100	200 µg
clasto-Lactacystin β-Lactone	426102	100 µg
α-Methylomuralide	426104	100 µg
MG-115	474780	5 mg
MG-132	474790	1 mg 5 mg
MG-132 in Solution	474791	1 mg
NLVS	482240	500 µg
NP-LLL-VS	492025	500 µg
Proteasome Inhibitor I	539160	1 mg 5 mg
Proteasome Inhibitor II	539162	1 mg 5 mg
Proteasome Inhibitor III	539163	100 µg
Proteasome Inhibitor IV	539175	5 mg
Proteasome Inhibitor Set I	539164	1 set
Proteasome Inhibitor Set II	539165	1 set
Proteasome Isolation Kit, Human	539176	1 kit
Proteasome Substrate I, Fluorogenic	539140	5 mg
Proteasome Substrate II, Fluorogenic	539141	5 mg
Proteasome Substrate III, Fluorogenic	539142	5 mg
Proteasome Substrate IV, Fluorogenic	539143	5 mg
Proteasome Substrate V, Fluorogenic	539144	5 mg
Proteasome Substrate VI, Fluorogenic	539149	5 mg
Proteasome Substrate VII, Fluorogenic	539151	1 mg
Ro106-9920	557550	1 mg 5 mg
Ro106-9920, Control	557551	1 mg
Tyrospeptin A, Synthetic	657008	1 mg 5 mg

Product	Cat. No.	Size
Ubiquitin Aldehyde	662056	50 µg
Ubiquitin-AMC	662075	25 µg
YU101	688500	100 µg



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