

Antibodies to Cancer Biomarkers

Antibody To	Associated Conditions	Catalog Number	Host	Specificity	References
Alpha fetoprotein (AFP)	Liver carinoma and metastatic cancers of the liver	MABD78	Mouse	Demonstrated to react with human AFP	FOXA1 functions as a pioneer transcription factor at transposable elements to activate AFP during differentiation of embryonic stem cells.; Taube JH, Allton K, Duncan SA, Shen L, Barton MC; J Biol Chem,: (2010)
		MAB4086	Mouse	67kD alpha-fetoprotein (AFP) receptor and AFP binding protein (AFP-BP).	
		MAB4084Z	Mouse	67kD alpha-fetoprotein (AFP) receptor and AFP binding protein (AFP-BP).	
		ST1674-100UL	Rabbit	Recognizes the AFP protein.	
		ST1673-100UG	Mouse	Recognizes the ∼70-75 kDa AFP protein.	
CA19-9	Mainly pancreatic cancer, but also colorectal cancer and other types of gastrointestinal cancer.	CA1003-200UL	Mouse	Recognizes the CA19-9 carbohydrate determinant.	1. Carpelan-Holmstrom, M., et al. 2002. Anticancer Res. 22, 2311. 2. Stern, P., et al. 2001. Clin. Chem. Lab. Med. 39, 1278.
CA-125	Mainly ovarian cancer, but may also be elevated in for example endometrial cancer, fallopian tube cancer, lung cancer, breast cancer and gastrointestinal cancer. May also increase in endometriosis.	CA1004-200UL	Mouse	Recognizes the CA125 antigen on the >200 kDa mucin-like glycoprotein.	 Broudy, V.C. et al, 1996. Blood 88:75. Veiby, O.P., S.D. Lyman and S.E. Jacobsen. 1996. Blood 87:3117. Sudo, T. et al. 1995. Oncogene 11:2469. Yoshida, H. et al. 1996. Development 122:1207.
Calretinin	Mesothelioma, sex cord-gonadal	MAB1568	Mouse	Calretinin	Strauss, K. I. et al.; Expression and Rapid Purification of
	stromal tumour, adrenocortical carcinoma, synovial sarcoma	AB5054-K Mouse Specific for carretinin. Recognizes both the calcium	Specific for calretinin. Recognizes both the calcium-bound and calcium-unbound conformations of calretinin by western blots.	Recombinant Rat Calretinin: Similarity to Native Rat Calretinin. Protein Expression and Purification, 5:187-191 (1994)	
		PC254L-100UL	Rabbit	Recognizes the ~63 kDa (apparent MW) calretinin protein.	
		AB1550	Goat	Recognizes calretinin.	
		IHC2104-K	Rabbit	Specific for calretinin. Recognizes both calcium bound and calcium unbound conformations by immunoblots.	

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Carcinoembryonic	Hemangiopericytoma/solitary fibrous tumor, pleomorphic lipoma, gastrointestinal stromal tumor, dermatofibrosarcoma protuberans	07-479	Rabbit	CEARL/hnRNP M4 isoform 1	Pilot study of a dual gene recombinant avipox vaccine containing
antigen		MAB425	Mouse	Human carcinoembryonic antigen (CEA)	both carcinoembryonic antigen (CEA) and B7.1 transgenes in patients with recurrent CEA-expressing adenocarcinomas von Mehren M; Clin Cancer Res. 2000 Jun; 6(6):2219-28.,: (2000)
		IHC2007-K	Rabbit	Reacts with carcinoembryonic antigen (CEA) and CEA-like proteins for example, non-specific cross-reacting antigen (NCA), NCA2 and biliary glycoprotein (BGP1).	
		CB1034-100UG	Mouse	Recognizes the CEACAM1 protein.	
CD34	Hemangiopericytoma/solitary	OP164-100UG	Mouse	Recognizes the CD34 protein.	1. Co-localization of angiotensin-converting enzyme 2-, octomer-4-
	fibrous tumor, pleomorphic lipoma, gastrointestinal stromal tumor, dermatofibrosarcoma protuberans	CBL555	Mouse	Clone 581 reacts with the class III CD34 epitope is resistant to neuraminidase, chymopapain and glycoprotease.	and CD34-positive cells in rabbit atherosclerotic plaques. Anthony Zulli, Sudarshan Rai, Brian F Buxton, Louise M Burrell, David L Hare (2008) Experimental physiology. 93:564-9
	dermatonorosarcoma protuocians	MAB4211	Mouse	Reacts with early myeloblast line KG1. No reaction with null, B or T lymphoid, erythroid or later myeloid cell lines.	A phase I clinical trial of the treatment of Crohn's fistula by adipose mesenchymal stem cell transplantation. García-Olmo,
		CBL496	Mouse	Recognizes a heavily glycosylated transmembrane protein: gp 105–120 kDa. The antigen is expressed on immature human haemopoietic precursor cells, capillary endothelial cells and human myeloid cells.	Damián, et al. (2005) Dis. Colon Rectum, 48:1416-23 (2005)
CD99	Gastrointestinal stromal tumor, mastocytosis, seminoma	CB1050-100UG	Mouse	Recognizes the ~25 kDa CD99 protein.	1. CD99 monoclonal antibody induce homotypic adhesion of Jurkat cells through protein tyrosine kinase and protein kinase C-dependent pathway. Kasinrerk et al Immunology Letters Volume 71 January 2000.
		CB1049-100UG	Rabbit	Recognizes the \sim 16 kDa and \sim 25 kDa isoforms of CD99.	
CD117	Neuroendocrine tumor	FCMAB214P	Mouse	Antibody recognizes human CD117 antigen.	1. Broudy, V.C. et al, 1996. Blood 88:75. 2. Veiby, O.P., S.D. Lyman and S.E. Jacobsen. 1996. Blood 87:3117. 3. Sudo, T. et al. 1995. Oncogene 11:2469. 4. Yoshida, H. et al. 1996. Development 122:1207.
		218150-100UG	Mouse	Recognizes the ~150 kDa CD117 protein.	
		CBL1360	Rat	Specifically recognizes mouse CD117, known as c-kit receptor, stem cell factor receptor and steel factor receptor.	
Chromogranin	Many types of carcinoma, some types of sarcoma	MAB5268	Mouse	Reacts with the phophorylated and dephosphorylated H-chain of neurofilament 200kDa (NF-H)	Alteration in chromogranin A, obestatin and total ghrelin levels of saliva and serum in epilepsy cases. Dag E, Aydin S, Ozkan Y, Erman F, Dagli AF, Gurger M Peptides, 31:932-7. Epub 2010 Feb 19. (2010) Chromogranin A in gastric neuroendocrine tumours: an immunohistochemical and biochemical study with region-specific
		FCMAB329F	Mouse	Antibody recognizes human chromogranin A.	
		MAB319	Mouse	Chromogranin A.	
		MAB5768	Mouse		
		IHC2096-K	Mouse		antibodies. Andreas Tartaglia, Guida M Portela-Gomes, Kjell Oberg, Paolo Vezzadini, Maria P Foschini, Mats Stridsberg Virchows Archiv: an international journal of pathology, 448:399-406 (2006) 3. Proteomic profiling of von Hippel-Lindau syndrome and multiple endocrine neoplasia type 2 pheochromocytomas reveals different expression of chromogranin B. Frederieke M Brouwers, Sven Gläsker, Amanda F Nave, Alexander O Vortmeyer, Irina Lubensky, Steven Huang, Mones S Abu-Asab, Graeme Eisenhofer, Robert J Weil, Deric M Park, W Marston Linehan, Karel Pacak, Zhengping Zhuang Endocrine-related cancer, 14:463-71 (2007)

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Desmin	HER1, HER1/EGFR lung and pancreatic cancer marker	IF02L-100UG	Mouse	Recognizes the ~53 kDa desmin protein.	1. DNA methylation-histone modification relationships across
		AB907	Rabbit	Reacts specifically with desmin in cultured cells or tissue preparations originating from chicken, human, bovine and mouse tissue. AB907 specifically stains the wide desmin band in immunoblot at a molecular weight of 50-55 kD.	the desmin locus in human primary cells. Marianne Lindahl Allen, Christoph M Koch, Gayle K Clelland, Ian Dunham, Michael Antoniou, BMC molecular biology, 10:51 (2009) 2. Protective effect of geranylgeranylacetone via enhancement of
		04-585	Rabbit	Recognizes human, mouse, rat desmin.	HSPB8 induction in desmin-related cardiomyopathy. Atsushi Sanbe, Takuya Daicho, Reiko Mizutani, Toshiya Endo, Noriko Miyauchi, Junji
		MAB3430	Mouse	The antibody reacts with desmin from human, pig, rat and toad. In tissue sections this antibody is used to stain skeletal, cardiac, visceral, and some vascular smooth muscle cells.	Yamauchi, Kouichi Tanonaka, Charles Glabe, Akito Tanoue, PloS one,
		MAB1698	Mouse		4:e5351 (2009) 3. Mitochondrial dysfunction and apoptosis underlie the pathogenic
		IHC2011-K	Mouse	visceral, and some vascular smooth muscle cells.	process in alpha-B-crystallin desmin-related cardiomyopathy. Alina Maloyan, Atsushi Sanbe, Hanna Osinska, Margaret Westfall, Dustin Robinson, Ken-ichi Imahashi, Elizabeth Murphy, Jeffrey Robbins;m Circulation, 112:3451-61 (2005)
EGFR	Many types of carcinoma,	05-1047	Mouse	This antibody detects the cytoplasmic domain of EGFR.	Nonstructural proteins of respiratory syncytial virus suppress
	meningioma, some types of sarcoma	05-483	Mouse	Recognizes the motif NAE[pY]LRV corresponding to the major auto-phosphorylation site of the human EGFR, Mr 175 kDa.	premature apoptosis by an NF-kappaB-dependent, interferon- independent mechanism and facilitate virus growth. Vira Bitko,
		06-847	Rabbit	Recognizes the EGFR, Mr 180 kDa.	 Olena Shulyayeva, Barsanjit Mazumder, Alla Musiyenko, Murali Ramaswamy, Dwight C Look, Sailen Barik (2007) Journal of virology.81:1786-95 2. Hyaluronan and the interaction between CD44 and epidermal growth factor receptor in oncogenic signaling and chemotherapy resistance in head and neck cancer. Steven J Wang, Lilly Y W Bourguignon, Steven J Wang, Lilly Y W Bourguignon (2006) Archives of otolaryngologyhead neck
		05-1004	Mouse	This antibody recognizes phosphorylated EGFR (Tyr1173).	
		05-1128	Mouse	Reacts with activated and phosphorylated EGFR, does not react with other phosphorylated proteins.	
		05-101	Mouse	Recognizes both phosphorylated and non-phosphorylated human EGF receptors.	
		07-1024	Rabbit		
		07-818	Rabbit	Recognizes phospho-EGFR (Tyr1086)	surgery.132:771–8 3. The antiepidermal growth factor receptor agent gefitinib
		07-819	Rabbit	Recognizes phospho-EGFR (Tyr1148)	(ZD1839/Iressa) improves antihormone response and prevents
		07-820	Rabbit	Recognizes phospho-EGFR (Tyr845)	development of resistance in breast cancer in vitro.
		16-244	Mouse	The motif NAE[pY]LRV corresponding to the major autophosphorylation site of the human EGFR.	J M W Gee, M E Harper, I R Hutcheson, T A Madden, D Barrow, J M Knowlden, R A McClelland, N Jordan, A E Wakeling, R I Nicholson (2003) Endocrinology.144:5105-17
		07-821	Rabbit	Recognizes phospho-EGFR (Tyr992)	4. Enhanced estrogen receptor (ER) alpha, ERBB2, and MAPK signal
		07-715	Rabbit	Phospho-EGFR (Tyr1069). Tyr1069 corresponds to the position in the human (isoform a) and mouse precursor proteins.	transduction pathways operate during the adaptation of MCF-7 cells to long term estrogen deprivation. Martin, Lesley-Ann, et al.
		04-284	Mouse	Recognizes phosphorylated EGFR on Tyrosine 1045.	(2003) J. Biol. Chem., 278: 30458-68 (2003)
Epithelial Membrane Protein (EMP)	Vascular sarcoma	MAB4444	Mouse	Recognizes EpCAM specifically on undifferentiated human embryonic stem cells.	Muc-1, integrin, and osteopontin expression during the implantation cascade in sheep. G A Johnson, F W Bazer, L A Jaeger, H Ka, J E Garlow, C Pfarrer, T E Spencer, R C Burghardt; Biology of reproduction, 65:820-8 (2001)

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Factor VIII, CD31	Vascular sarcoma	04-1074	Rabbit	This antibody recognizes PECAM1.	1. Binding of factor VIII inhibitors to discrete regions of the factor VIII C2 domain disrupt phospholipid binding. Deborah A Lewis, Karen D Moore, Thomas L Ortel; Blood coagulation fibrinolysis: an international journal in haemostasis and thrombosis, 14:361–8 (2003) 2. Direct characterization of factor VIII in plasma: detection of a mutation altering a thrombin cleavage site (arginine-372—histidine).; Arai, H Inaba, M Higuchi, S E Antonarakis, H H Kazazian, M Fujimaki, L W Hoyer; Proceedings of the National Academy of
FL1 (pecam-1)		CBL468	Mouse	Reacts with a 130-140 kDa transmembranous glycoprotein that is expressed widely amongst the vascular compartment.	
		CBL1337	Rat	This antibody has been shown to inhibit the aggregation of L cells transfected with a variant form of PECAM-1.	
		MAB1398Z	Armenian Hamster	Reacts with PECAM-1 found on mouse monocytes, platelets, granulocytes and endothelial cells.	
		MAB2148	Mouse	Human PECAM	Sciences of the United States of America, 86:4277-81 (1989)
		MAB1393	Mouse	Antibody gives positive reaction at high dilutions against recombinant rat PECAM-1, confirming specificity.	
		MAB2148	Mouse	Human PECAM	
Glial fibrillary	Breast cancer, ovarian cancer, salivary	IF03L-100UG	Mouse	Recognizes the glial fibrillary acidic protein (GFAP).	1. Benarroch, Eduardo E., et al. (2007). Brain.130: 469-75.
acidic protein	gland cancer	AB5804	Rabbit	Recognizes glial fibrillary acidic protein (GFAP).	2. Gascón, Sergio, et al. (2007). J. Neurosci. Res.85: 1713-1723. 3. Elmariah, S. B., et al. (2005). J. Neurosci.25: 3638-3650.
(GFAP)		MAB3402C3	Mouse	The antibody reacts with mouse GFAP. In tissue sections this antibody stains astrocytes and Bergman glia cells.	4. Zhou, C. J., Zhao, C. and Pleasure, S. J.,(2004). J. Neurosci. 24(1): 121-126.
		04-1031	Rabbit	This antibody recognizes GFAP at and around the c-terminus.	5. Gascón, Sergio, et al. (2008). Mol. Psychiatry. 13:99-114. 6. Hammerie, B., et al. (2003). European J. Neuroscience. 17: 2277-2286.
		04-1062	Rabbit	This antibody recognizes GFAP at and around the n-terminus.	
		07-650	Rabbit	GFAP+1	
Gross cystic disease fluid protein	Breast cancer, ovarian cancer, salivary gland cancer	MAB3402B	Mouse	The antibody reacts with mouse GFAP. In tissue sections this antibody stains astrocytes and Bergman glia cells (Debus, E., 1983).	1. Swanson, P.E., et al. 1991. Arch. Pathol. Lab. Med. 115, 158. 2. Mazoujian, G., et al. 1988. J. Histochem. Cytochem. 36, 377.
(GCDFP-15)		CBL411	Mouse	The antibody reacts with GFAP from human, pig, chicken and rat. In tissue sections this antibody stains astrocytes and Bergman glia cells (Debus, E., 1983).	
		345860-100UG	Rat	Recognizes the ~55 kDa glial fibrillary acidic protein (GFAP).	
		MAB5628	Mouse	Glial fibrillary acidic protein (GFAP).	
		MAB3402X	Mouse	The antibody reacts with mouse GFAP. In tissue sections this antibody stains astrocytes and Bergman glia cells (Debus, E., 1983).	
		MAB360	Mouse	Glial fibrillar acidic protein.	
		AB9598	Rabbit	Glial fibrillary acidic protein-delta (GFAP-delta). The antibody does not recognize GFAP-alpha protein.	
		AB5541	Chicken	Glial fibrillary acidic protein (GFAP). Reacts with both native and recombinant protein.	
		MAB3402	Mouse	The antibody reacts with mouse GFAP. In tissue sections this antibody stains astrocytes and Bergman glia cells.	

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HMB-45	Melanoma, PEComa (for example angiomyolipoma), clear cell carcinoma, adrenocortical carcinoma	CA1001-200UL IHC2066-K	Mouse Mouse	Recognizes the ~15 kDa BRST-2 protein.	1. Gown A M, Vogel A M, Hoak D, et al Monoclonal antibodies specific for melanocytic tumors distinguish subpopulations of melanocytes. American Journal of Pathology. 123(2): 195-203 (1986). 2. Wick M R, Stanley S J and Swanson P E. Immunohistochemical diagnosis of sinonasal melanoma, carcinoma, and neuroblastoma with monoclonal antibodies HMB-45 and anti-synaptophysin. Arch Pathol Lab Med. 112: 616-620 (1988). 3. Ordóñez N G, Xiaolong J and Hickey R C. Comparison of HMB-45 monoclonal antibody and S-100 protein in the immunohistochemical diagnosis of melanoma. American Journal of Clinical Pathology. 90(4): 385-390 (1988). 4. Kapur R P, Bigler S A, Skelly M, et al Anti-melanoma monoclonal antibody HMB45 identifies an oncofetal glycoconjugate associated with immature melanosomes. The Journal of Histochemistry and Cytochemistry. 40(2): 207-212 (1992).
Human chorionic	Germ cell tumors, teratoma and islet	230746-1MG	Mouse	Recognizes β-chorionic gonadotropin.	Fatal disseminated adenovirus infections in immunocompromised
gonadotropin	cell tumor	MAB605	Mouse	Cross reactivity: HCG 100%, B-hCG 74%	patients.; Teresa Tram N Pham, James L Burchette, Laura P Hale American journal of clinical pathology, 120:575-83 (2003) 2. Adenoviral infections in pediatric liver transplant recipients; AMA, 258:489-492 (1987)
(hCG)		AB10309	Rabbit		
PTPRC (CD45)	Sex cord-gonadal stromal tumour, adrenocortical carcinoma, hemangioblastoma	05-1413	Mouse	This antibody recognizes the 220 kDa molecular weight component of the leucocyte common antigen complex.	1. CD45-positive blood cells give rise to uterine epithelial cells in mice. András Bratincsák, Michael J Brownstein, Riccardo Cassiani-Ingoni, Sandra Pastorino, Ildikó Szalayova, Zsuzsanna E Tóth, Sharon Key, Krisztián Németh, James Pickel, Eva Mezey; Stem cells (Dayton, Ohio), 25:2820-6 (2007) 2. Requirement for CD45 in fine-tuning mast cell responses mediated by different ligand-receptor systems. Gordon Grochowy, Michelle L Hermiston, Marcel Kuhny, Arthur Weiss, Michael Huber, Cellular signalling, 21:1277-86 (2009)
		FCMAB126F	Mouse	This antibody recognizes the 220 kDa molecular weight component of the leucocyte common antigen complex.	
		05-1416	Rat	This antibody reacts with all isoforms of mouse CD45 which is expressed on all haematopoietic cells except erythrocytes.	
		FCMAB118P	Mouse	Antibody recognizes CD45 extracellular domain.	
		05-1410	Mouse	This antibody reacts with the leucocyte common antigen (LCA) complex.	3. CD45 negatively regulates monocytic cell differentiation by inhibiting phorbol 12-myristate 13-acetate-dependent activation and tyrosine phosphorylation of protein kinase Cdelta. E L Deszo,
		04-1102	Rabbit	This antibody recognizes CD45 at and around the C-terminus.	D K Brake, K A Cengel, K W Kelley, G G Freund, The Journal of
		CBL1502	Mouse	The antibody recognises a monomorphic determinant of the rat	biological chemistry, 276:10212-7 (2001)
		IHC2034-K	Mouse	leucocyte common antigen (LCA, CD45).	
MART-1 (Melan-A)	Lymphoma, leukemia	05-715	Mouse	Melan-A/MART1	Serological analysis of Melan-A(MART-1), a melanocyte-specific protein homogeneously expressed in human melanomas. Chen, Y T, et al., Proc. Natl. Acad. Sci. U.S.A., 93: 5915-9 (1996)
Muscle-specific actin (MSA)	Rhabdomyosarcoma, small, round, blue cell tumour	CBL171	Mouse	This antibody is specific for the alpha-smooth-muscle isoform of actin (MW 43 kDa).	1. A smooth muscle-specific monoclonal antibody recognizes smooth muscle actin isozymes. Gown, A M, et al.; J. Cell Biol., 100:
		MAB1501	Mouse	Reacts with actins from all vertebrates, as well as with Dictyostelium discoideum and Physarum polycephalum actins.	807-13 (1985) 2. HHF35, a muscle-actin-specific monoclonal antibody. I. Immunocytochemical and biochemical characterization. Tsukada, T,
		113200-500UL	Mouse	Recognizes $lpha$ -actin in smooth muscle cells.	et al.; Am. J. Pathol., 126: 51-60 (1987)
		04-1040	Rabbit	This actin antibody recognizes all muscle actin.	
		AB3265	Sheep	Recognizes actin, gamma. Specificity for gamma actin determined by 2D gel electrophoresis.	
		04-1116	Rabbit	This antibody recognizes beta actin.	

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Neurofilament	Myosarcoma (leiomyosarcoma, rhabdomyosarcoma)	04-1032	Rabbit	This antibody recognizes neurofilament-66 at and around the tail domain.	1. Neurofilament proteins and cAMP pathway in brains of mu-, delta- or kappa-opioid receptor gene knock-out mice: effects of
		04-1112	Rabbit	This antibody recognizes neurofilament-L at and around the c-terminus.	chronic morphine administration. J A García-Sevilla, M Ferrer-Alcón, M Martín, B L Kieffer, R Maldonado; Neuropharmacology, 46:519-
		04-1061	Rabbit	This antibody recognizes phosphorylated Ser614/619 of	- 30 (2004) 2. Emergence of highly neurofilament-immunoreactive zipper-like
		ABN76	Rabbit	neurofilament M.	axon segments at the transection site in scalpel-cordotomized adult
		MAB5256	Mouse	The antibody reacts with neurofilament 200 kD.	rats. T Nishio, S Kawaguchi, H Fujiwara; Neuroscience, 155:90-103
		MAB5254	Mouse	The antibody reacts with neurofilament 160 kD	(2008) 3. Phosphorylation-dependent neurofilament epitopes are reduced
		AB1991	Rabbit	Strong reactivity to the major neurofilament subunit HF-H.	at the node of Ranvier. M Mata, N Kupina, D J Fink; Journal of neurocytology, 21:199-210 (1992)
Neuron-specific	Neuroendocrine tumor, small-cell	AB9698	Chicken	Recognizes Neuron-specific enolase (NSE).	1. Generation of a transgenic zebrafish model of Tauopathy using a
enolase (NSE)	carcinoma of the lung	AB951	Rabbit	AB951 stains many neuronal cell bodies and processes within the central and peripheral nervous system.	novel promoter element derived from the zebrafish eno2 gene. Qing Bai, Jessica A Garver, Neil A Hukriede, Edward A Burton; Nucleic
		MAB324	Mouse	Human gamma neuron-specific enolase. Recognizes a 45kD band corresponding to gamma NSE.	acids research, 35:6501-16 (2007) 2. Differentiation markers (S-100, GFAP, NSE and D2) in fetal rat brain cells during malignant transformation in cell culture; Laerum, O D, et al; J Neurooncol, 3:137-46 (1985)
		MAB314	Mouse	Gamma-gamma NSE from rat, human and bovine. No cross-reactivity with Alpha-alpha NSE, beta-beta NSE or CK-BB.	
		IHC2014-K	Mouse	Reacts with human gamma-gamma enolase (Mr 46000). Does not cross-react with alpha or beta subunits of NSE.	
Placental alkaline phosphatase (PLAP)	Neuroendocrine tumor, small-cell carcinoma of the lung, breast cancer	CBL207	Mouse	This antibody is specific for human placental alkaline phosphatase (Regan and Nagao isoenzymes).	Production of monoclonal antibodies to placental alkaline phosphatase: preliminary characterisation includes identification of one antibody reactive with routinely fixed histological preparations. Durbin, H, et al.; Int. J. Cancer Suppl., 2: 50-8 (1988)
Prostate-specific		05-761	Mouse	PSA/ACT complex	1. Generation of PSA-reactive effector cells after vaccination with a
antigen		CBL252	Mouse	The antibody recognizes PSA in ELISA and western blots.	PSA-based vaccine in patients with prostate cancer; Meidenbauer
		IHC2052-K	Rabbit	Reacts with prostatic ductal epithelium in both normal and neoplastic tissue. A marker for tumors of prostatic origin.	 N, et al.; Prostate. 2000 May 1;43(2):88-100., : (2000) 2. Activity-dependent PSA expression regulates inhibitory maturation and onset of critical period plasticity. Graziella Di Cristo,
		OP158-100UL	Mouse	Recognizes the ~33-34 kDa prostate specific antigen.	Bidisha Chattopadhyaya, Sandra J Kuhlman, Yu Fu, Marie-Claude Bélanger, Cai Zhi Wu, Urs Rutishauser, Lamberto Maffei, Z Josh Huang; Nature neuroscience, 10:1569-77 (2007)
S100 Protein	Seminoma, dysgerminoma, embryonal	CB1040-100UG	Mouse	Recognizes the ~12 kDa S100B protein.	HIV Nef is secreted in exosomes and triggers apoptosis in
	carcinoma	04-1054	Rabbit	This antibody recognizes S100-β at and around the c-terminus.	bystander CD4+ T cells. Lenassi M, Cagney G, Liao M, Vaupotic T,
		MAB385	Mouse	Reacts strongly with total cell lysate/tissue extract of MDBK cells, bovine lung, and squamous cells from human tonsil.	Bartholomeeusen K, Cheng Y, Krogan NJ, Plemenitas A, Peterlin BM; Traffic, 11:110-22. (2010)
		MAB079-1	Mouse	Recognizes intact, alpha and beta subunits of bovine, human, and murine S-100 protein.	
		AB941	Rabbit	Positive and specific immunostaining of S-100-containing cells present in normal skin and human neoplasms.	

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Smooth muscle actin (SMA)	Prostate	04-1094	Rabbit	This antibody only detects actin in smooth muscle in immunohistochemistry.	Antisense correction of SMN2 splicing in the CNS rescues necrosis in a type III SMA mouse model; Hua, Yimin, et al.; Genes Dev., 24:
		CBL171-K	Mouse	This antibody is specific for the alpha-smooth-muscle isoform of actin (MW 43 kDa).	1634-44 (2010)
		MAB1522-K	Mouse	Recognizes actin isotypes alpha and gamma of smooth muscle cells, but not skeletal or cardiac muscle cells.	
		MAB3576	Mouse	Caldesmon, smooth muscle. By western blot the antibody recognizes a protein of 150-kDa.	
		MAB1501	Mouse	Reacts with both globular (G) and fillimentous (F) forms of actin.	
		113200-500UL	Mouse	Recognizes α -actin in smooth muscle cells.	
		CP64-100UL	Mouse	Recognizes the ~21 kDa p21WAF1 protein.	
		04-1040	Rabbit	This actin antibody recognizes all muscle actin.	
Synaptophysin	Melanoma, sarcoma (neurosarcoma,	MAB368	Mouse	Localizes the 38 kD band of synaptophysin by immunoblotting.	Synaptophysin immunogold labelling of synapses decreases
	lipoma, chondrosarcoma),	573822-100UL	Mouse	Recognizes the ~38 kDa syaptophysin protein.	in dentate gyrus of the hippocampus of aged rats. H A Davies, A
	astrocytoma, gastrointestinal stromal tumor, salivary gland cancer, some types of adenocarcinoma, histiocytic tumor (dendritic cell, macrophage)	MAB5258-50UG	Mouse	Reacts with presynaptic vesicles of cerebral and spinal neurons, of neuromuscular endplates and with the retina of man, cow, rat and mouse.	Kelly, T M Dhanrajan, M A Lynch, J J Rodríguez, M G Stewart; Brain research, 986:191-5 (2003) 2. Hippocampal synaptophysin immunoreactivity is reduced during natural hypothermia in ground squirrels. Arjen M Strijkstra, Roelof A Hut, Martijn C de Wilde, Jens Stieler, Eddy A Van der Zee; Neuroscience letters, 344:29-32 (2003) 3. Neocortical synaptophysin asymmetry and behavioral lateralization in chimpanzees (Pan troglodytes). Sherwood CC,
		MAB332	Mouse	Has been used in peptidase digestion and deglycosylation studies, and appears to react with native synaptophysin.	
		MAB329	Mouse	Reacts with synaptophysin expressed in CHO cells.	
		AB9272	Rabbit		Duka T, Stimpson CD, Schenker NM, Garrison AR, Schapiro SJ, Baze
		IHCR1011-6	Mouse	Reacts with presynaptic vesicles of cerebral and spinal neurons, of neuromuscular endplates and with the retina.	WB, McArthur MJ, Erwin JM, Hof PR, Hopkins WD; Eur J Neurosci, 31:1456-64. Epub 2010 Apr 6. (2010)
		AB9840	Rabbit	Recognizes a protein of ~38 kDa corresponding to synaptophysin 2 in lysates from rat hippocampus.	
Thyroid transcription factor-1	Neuroendocrine tumor	07-601	Rabbit	ΠF-1	1. Epigenetic mechanisms modulate thyroid transcription factor 1-mediated transcription of the surfactant protein B gene. Cao Y, Vo T, Millien G, Tagne JB, Kotton D, Mason RJ, Williams MC, Ramirez MI; The Journal of biological chemistry, 285:2152-64 (2010) 2. Thyroid transcription factor-1, hepatocyte nuclear factor-3beta, surfactant protein B, C, and Clara cell secretory protein in developing mouse lung. Zhou, L, et al.; J. Histochem. Cytochem., 44: 1183-3 (1996) 3. Monoclonal antibody to thyroid transcription factor-1: production, characterization, and usefulness in tumor diagnosis. Holzinger, A, et al.; Hybridoma, 15: 49-53 (1996)
P40	Colorectal cancer, breast cancer, renal	PC373-100UL	Rabbit	Recognizes the ~40 kDa p40 protein.	Aberrant production of IL-12 by macrophages from several
	cell carcinoma, lung cancer, pancreatic	07-501	Mouse	Recognizes p40-phox, Mr ~40kDa.	autoimmune-prone mouse strains is characterized by intrinsic and
	cancer, esophageal cancer, stomach cancer, cervical cancer, ovarian cancer	07-503	Rabbit	Recognizes p40-phox, Mr ~40kDa.	unique patterns of NF-kappa B expression and binding to the IL-12 p40 promoter. Jiajian Liu, David Beller; Journal of immunology
	carreer, cervical carreer, ovarian carreer	04-1582	Mouse	This antibody specifically recognizes the p40 subunit of IL-23.	(Baltimore, Md.: 1950), 169:581-6 (2002)

Antibody To	Associated Conditions	Catalog Number	Host	Specificity	References
Vimentin	Sarcoma, renal cell carcinoma, endometrial cancer, lung carcinoma,	CBL202-K	Mouse	Highly specific for the intermediate filament protein vimentin which is present in all cells of mesenchymal origin.	Vimentin binding to phosphorylated Erk sterically hinders enzymatic dephosphorylation of the kinase. Eran Perlson, Izhak
	lymphoma, leukemia, melanoma	MABT121	Mouse		Michaelevski, Noga Kowalsman, Keren Ben-Yaakov, Maya Shaked,
		IF01-100UG	Mouse	Recognizes the ~58 kDa vimentin protein.	Rony Seger, Miriam Eisenstein, Mike Fainzilber; Journal of molecular biology, 364:938-44 (2006)
		MAB1681	Mouse	Reacts with human mesenchymal cells and derived sarcomas.	2. Structure and function of a vimentin-associated matrix adhesion
		MAB3400	Mouse	Recognizes a 57-60 kDa protein. Shows no cross-reactivity with other closely related intermediate filament proteins.	in endothelial cells. M Gonzales, B Weksler, D Tsuruta, R D Goldman, K J Yoon, S B Hopkinson, F W Flitney, J C Jones; Molecular biology
		AB1620	Goat	Recognizes vimentin in cultured mammalian cells and tissue sections. AB1620 specifically stains the vimentin band (58 kD).	 of the cell, 12:85-100 (2001) 3. Role of caveolin-1 and cytoskeletal proteins, actin and vimentin, in adipogenesis of bovine intramuscular preadipocyte cells. Takato
		AB5733	Chicken	Recognizes vimentin.	Takenouchi, Norikazu Miyashita, Kyohei Ozutsumi, Michael T Rose,
		MAB1633	Mouse	Vimentin	Hisashi Aso; Cell biology international, 28:615-23 (2004).
		MAB1687	Mouse	Reacts with all mesenchymal cells (fibroblasts, Scwann cells, endothelial cells, smooth muscle cells, etc.).	
Maspin	Tumor suppressor	MAB4035-KC	Mouse	Recognizes human maspin.	Sufficiency of the reactive site loop of maspin for induction of cell-matrix adhesion and inhibition of cell invasion. Conversion of ovalbumin to a maspin-like molecule. Ngamkitidechakul, C. et al.; J. Biol. Chem., 278 (34):31796-31806 (2003)
FOX	Tumor suppressor	ABN51	Rabbit	of the Fox-1	1. Identification of neuronal nuclei (NeuN) as Fox-3, a new member
		ABE184	Rabbit		of the Fox-1 gene family of splicing factors. Kim, Kee K, et al.; J. Biol. Chem., (2009)
		AB5687	Rabbit	This antibody recognizes Fox-3 at the n-terminus.	2. The serine/threonine kinase Pim-2 is a transcriptionally regulated apoptotic inhibitor. Fox, Casey J, et al.; Genes Dev., 17: 1841-54
		ABE73	Rabbit	This antibody recognizes FoxP2.	
		ABE75	Rabbit		(2003)
		ABE68	Rabbit	This antibody recognizes FoxP1.	
		ABE74	Rabbit	This antibody recognizes FoxP4.	
		MABE159	Mouse		
AbdB (HOX)		07-178	Rabbit	Recognizes Hox A9, Mr 36kDa.	Persistent transactivation by meis1 replaces hox function in myeloid leukemogenesis models: evidence for co-occupancy of meis1-pbx and hox-pbx complexes on promoters of leukemia-associated genes. Gang G Wang, Martina P Pasillas, Mark P Kamps; Molecular and cellular biology, 26:3902-16 (2006)
		ABE128	Rabbit	_	
		ABE118	Rabbit		
Vitamin B12	Liver disease (such as cirrhosis or hepatitis), Myeloproliferative disorders (for example, polycythemia vera and chronic myelocytic leukemia)	CBL64-KC	Mouse	Vitamin B12	Vitamin B12 binding by microalgal ectocrines: dissociation constant of the vitamin-binder complex determined using an ultrafiltration technique. Davies, et al.; Mar. Ecol. Prog. Ser. 21, 267, 1985

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