



WideScreen™ Assay Kits
For the Luminex® xMAP® Technology platform

Assay Portfolio

Effective July 2009



Harness the Power of Multiplexing with WideScreen™ Assays



WideScreen™ Assays for the Luminex® xMAP® Technology Platform enable the detection of biomarkers and protein targets, accelerating primary research and drug-discovery.

WideScreen™ Multiplex Assays for intracellular signaling proteins include technologies for the detection of total and phosphorylated proteins relevant in cell signaling biology and therapeutic compound development.

WideScreen™ Multiplex Assays for the extracellular proteins are highly validated kits that detect key informational biomarkers and targets for specific therapeutic area research and disease state research.



Complete validation information for each WideScreen™ Assay is available at:

www.emdbiosciences.com/widescreen

WideScreen™ Biomarker Assays

WideScreen™ Biomarker Assay Kits are the result of an ongoing collaboration with Rules Based Medicine (RBM). A portfolio of products for the Luminex® xMAP® System has been developed containing specific multiplex panel kits that utilize assays validated and used in the HumanMAP™ and RodentMAP™ service portfolio from RBM.

Panels focus on specific therapeutic areas or disease states and allow data generated in discovery and preclinical stages to be correlated to data from later phases of drug development.

RBM

WideScreen™ Human Cancer Panel 1 (Tumor Markers)		
Analyte	Performance Characteristics	
AFP	Species	Human - other species not tested
CA 125	Sample Size	6 µl
CA15-3	Sample Types	Serum, plasma, tissue culture supernatants
CA 19-9	Intra-assay CV	3%-15%
CEA	Inter-assay CV	7%-24%
Prolactin	Format	Pre-mixed 6-plex

WideScreen™ Human Cancer Panel 2 (Growth Factors)			
Analyte		Performance Characteristics	
Amphiregulin	HB-EGF	Species	Human - other species not tested
Betacellulin	PDGF-BB	Sample Size	6 µl
EGF	PIGF	Sample Types	Serum, plasma, tissue culture supernatants
sEGFR	Tenascin C	Intra-assay CV	3%-12%
Epiregulin	TGF-α	Inter-assay CV	4%-21%
FGF-basic	VEGF	Format	Pre-mixed 12-plex

WideScreen™ Human Metabolism Panel 1		
Analyte	Performance Characteristics	
ACE	Species	Human - other species not tested
Cortisol	Sample Size	6 µl
GLP-1 (Total)	Sample Types	Serum, plasma, tissue culture supernatants
Insulin	Intra-assay CV	3%-7%
Leptin	Inter-assay CV	6%-19%
PP	Format	Pre-mixed 8-plex
Resistin		
TSH		

WideScreen™ Human Metabolism Panel 2		
Analyte	Performance Characteristics	
AgRP	Species	Human - other species not tested
ASP	Sample Size	6 µl
C-peptide	Sample Types	Serum, plasma, tissue culture supernatants
CNTF	Intra-assay CV	2%-11%
GLP-1 (Active)	Inter-assay CV	7%-25%
PYY	Format	Pre-mixed 7-plex
Secretin		

WideScreen™ Human Hormone Panel 1		
Analyte	Performance Characteristics	
FSH	Species	Human - other species not tested
hCG-B	Sample Size	6 µl
LH	Sample Types	Serum, plasma, urine, tissue culture supernatants
Progesterone	Intra-assay CV	2%-6%
Testosterone	Inter-assay CV	4%-19%
	Format	Pre-mixed 5-plex

WideScreen™ Rat Metabolism Panel 1		
Analyte	Performance Characteristics	
ACE	Species	Human - other species not tested
GLP-1 (Total)	Sample Size	6 µl
Glucagon	Sample Types	Serum, plasma, tissue culture supernatants
Insulin	Intra-assay CV	3%-10%
Leptin	Inter-assay CV	5%-19%
Resistin	Format	Pre-mixed 6-plex

WideScreen™ Human CVD Panel 1 (Apolipoproteins)

Analyte	Performance Characteristics	
Apo A-I	Species	Human - other species not tested
Apo A-II	Sample Size	< 1 µl
Apo B	Sample Types	Serum, plasma, tissue culture supernatant
Apo C-III	Intra-assay CV	1%-11%
Apo E	Inter-assay CV	7%-26%
Apo H	Format	Pre-mixed 7-plex
Apo J		

WideScreen™ Human CVD Panel 3

Analyte	Performance Characteristics	
E-selectin	Species	Human - other species not tested
P-selectin	Sample Size	6 µl
ICAM-1	Sample Types	Serum, plasma, tissue culture supernatant
Leptin	Intra-assay CV	3%-7%
Osteopontin	Inter-assay CV	4%-14%
sRAGE	Format	Pre-mixed 6-plex

WideScreen™ Human CVD Panel 5 (Acute Phase)

Analyte	Performance Characteristics	
α2-M	Species	Human, other species not tested
CRP	Sample Size	< 1 µl
Fetuin A	Sample Types	Serum, plasma, tissue culture supernatant
Fibrinogen	Intra-assay CV	2%-7%
Haptoglobin	Inter-assay CV	5%-24%
Lp(a)	Format	Pre-mixed 8-plex
SAP		
vWF		

WideScreen™ Human CVD Panel 2 (Inflammation)

Analyte	Performance Characteristics	
IL-6	Species	Human, other species not tested
IL-8	Sample Size	6 µl
MCP-1	Sample Types	Serum, plasma, tissue culture supernatant
MIP-1α	Intra-assay CV	2%-11%
MIP-1β	Inter-assay CV	7%-21%
TNF-α	Format	Pre-mixed 6-plex

WideScreen™ Human CVD Panel 4

Analyte	Performance Characteristics	
H-FABP	Species	Human, other species not tested
LOX-1	Sample Size	6 µl
MDA-LDL	Sample Types	Serum, plasma, tissue culture supernatant
Myeloperoxidase	Intra-assay CV	5%-9%
NT-Pro-BNP	Inter-assay CV	7%-18%
Thrombomodulin	Format	Pre-mixed 6-plex

WideScreen™ Human CVD Panel 6

Analyte	Performance Characteristics	
Adiponectin	Species	Human, other species not tested
Cystatin C	Sample Size	< 1 µl
EN-RAGE	Sample Types	Serum, plasma, tissue culture supernatant
PAI-1	Intra-assay CV	3%-8%
VCAM-1	Inter-assay CV	3%-17%
	Format	Pre-mixed 5-plex



WideScreen™ Rat Kidney Toxicity Assays

In 2008 the Predictive Safety Testing Consortium (PSTC), a public-private consortium led by the Critical Path Institute (C-Path) submitted a list of urinary biomarkers indicative of drug-induced kidney damage to the FDA and EMEA regulatory authorities. The FDA and EMEA have issued new guidelines on the submission of the biomarkers as indicators of kidney damage in pre-clinical studies.

Rules Based Medicine worked with the members of the PSTC to develop the assays used in the kidney toxicity study, and made the assays available in the Rat KidneyMAP™ testing service. We have collaborated with Rules Based Medicine to develop these assays as commercially available kits, exclusively for the Luminex® xMAP® Technology platform, to support preclinical rat nephrotoxicity studies

WideScreen™ Rat Kidney Toxicity Panel 1

Analyte	Performance Characteristics	
B2-microglobulin	Species	Rat, other species not tested
GST-α	Sample Size	15 µl
KIM-1	Sample Types	Urine and plasma
TIMP-1	Intra-assay CV	0%-15%
VEGF	Inter-assay CV	7%-15%
	Format	Pre-mixed 5-plex

WideScreen™ Rat Kidney Toxicity Panel 2

Analyte	Performance Characteristics	
Calbindin	Species	Rat, other species not tested
Clusterin	Sample Size	1 µl
Cystatin C	Sample Types	Urine and plasma
NGAL	Intra-assay CV	0%-18%
Osteopontin	Inter-assay CV	3%-16%
	Format	Pre-mixed 5-plex

WideScreen™ Multiplex Assays

WideScreen™ EpiTag™ ERK Pathway Panel 1

Analyte	Performance Characteristics	
B-Raf (pS446)	Species	Human, mouse - other species not tested
MEK1/2 (pS217, pS222/ pS226)	Sample Size	13 µl
	Sample Types	Cell and tissue lysates
ERK1 Total	Intra-assay CV	2%-7%
ERK1 (pT202/pY204)	Inter-assay CV	1%-12%
ERK2 Total	Format	Pre-mixed 6-plex, individual assays
ERK2 (pT185/pY187)		

WideScreen™ EpiTag™ ERK Pathway Panel 2

Analyte	Performance Characteristics	
Raf1 Total	Species	Human, mouse - other species not tested
Raf1 (pS338)	Sample Size	13 µl
MEK1 Total	Sample Types	Cell and tissue lysates
MEK2 Total	Intra-assay CV	2%-8%
MEK1/2 (pS217, pS221/ pS222, pS226)	Inter-assay CV	1%-18%
STAT1 Total	Format	Pre-mixed 6-plex, individual assays

WideScreen™ EpiTag™ ERK Additional Assays

Analyte	Performance Characteristics	
Raf1 High Sensitivity	Species	Human, mouse - other species not tested
RSK2 (pS386)	Sample Size	13 µl
STAT3 (pS727)	Sample Types	Cell and tissue lysates
	Intra-assay CV	2%-11%
	Inter-assay CV	1%-13%
	Format	Individual assays

WideScreen™ RTK Total Assay

Analyte	Performance Characteristics	
EGFR Total	Species	Human - other species not tested
IGF-1R Total	Sample Size	< 30 µl
HGFR Total	Sample Types	Cell lysates
PDGFRβ Total	Intra-assay CV	5%-9%
HER-2 Total	Inter-assay CV	7%-22%
VEGFR2 Total	Format	Pre-mixed 7-plex, individual assays
Tie-2 Total		

WideScreen™ Human MMP Panel

Analyte	Performance Characteristics	
MMP-1	Species	Human - other species not tested
MMP-3	Sample Size	6 µl
MMP-8	Sample Types	Serum, plasma, tissue culture supernatants
MMP-9	Intra-assay CV	1%-11%
MMP-10	Inter-assay CV	3%-10%
MMP-13	Format	Pre-mixed 6-plex

WideScreen™ Human Breast Cancer Panel 1

Analyte	Performance Characteristics	
Angiopoietin-2	Species	Human - other species not tested
Progesterone Receptor	Sample Size	<30 µl
HER-2	Sample Types	Cell and tissue lysates
PAI-1	Intra-assay CV	5%-11%
IGF-1R	Inter-assay CV	7%-22%
Angiogenin	Format	Pre-mixed 6-plex, individual assays

WideScreen™ Human Breast Cancer Panel 2

Analyte	Performance Characteristics	
EGFR	Species	Human - other species not tested
Fas	Sample Size	<30 µl
VEGFR2	Sample Types	Cell and tissue lysates
Estrogen Receptor α	Intra-assay CV	2%-10%
TIMP-2	Inter-assay CV	5%-21%
	Format	Pre-mixed 5-plex, individual assays

WideScreen™ Human Breast Cancer Panel 3

Analyte	Performance Characteristics	
TIMP-1	Species	Human - other species not tested
uPA	Sample Size	<30 µl
E-cadherin	Sample Types	Cell and tissue lysates
IGFBP-3	Intra-assay CV	3%-8%
	Inter-assay CV	4%-18%
	Format	Pre-mixed 4-plex, individual assays

WideScreen™ RTK pTyr Assay

Analyte	Performance Characteristics	
EGFR pTyr	Species	Human - other species not tested
IGF-1R pTyr	Sample Size	< 30 µl
HGFR pTyr	Sample Types	Cell lysates
PDGFRβ pTyr	Intra-assay CV	3%-11%
HER-2 pTyr	Inter-assay CV	7%-19%
VEGFR2 pTyr	Format	Pre-mixed 7-plex, individual assays
Tie-2 pTyr		

Still running SLOW ELISAs and Western blots?
WideScreen™ Assays will ACCELERATE your research.

Reduce cost and labor → Make budgets work harder

Rapid time to data → Make better decisions faster

Less sample needed → Save precious resources

Index of Analytes

Singleplex assays can only be mixed together with other assays from the same panel, please consult compatibility charts at: www.emdbiosciences.com/widescreen

Analyte	Assay Kit	Page	Singleplex	Multiplex
Human				
α2-M	CVD 5	B		✓
ACE	Metabolism 1	A		✓
Adiponectin	CVD 6	B		✓
AFP	Cancer Panel 1	A		✓
AgRP	Metabolism 2	A		✓
Amphiregulin	Cancer Panel 2	A		✓
Angiogenin	Breast Cancer 1	C	✓	✓
Angiotensin-2	Breast Cancer 1	C	✓	✓
Apo A-I	CVD 1	B		✓
Apo A-II	CVD 1	B		✓
Apo B	CVD 1	B		✓
Apo C-III	CVD 1	B		✓
Apo E	CVD 1	B		✓
Apo H	CVD 1	B		✓
Apo J / Clusterin	CVD 1	B		✓
ASP	Metabolism 2	A		✓
Betacellulin	Cancer Panel 2	A		✓
CA 125	Cancer Panel 1	A		✓
CA 15-3	Cancer Panel 1	A		✓
CA 19-9	Cancer Panel 1	A		✓
CEA	Cancer Panel 1	A		✓
CNTF	Metabolism 2	A		✓
Cortisol	Metabolism 1	A		✓
C-peptide	Metabolism 2	A		✓
CRP	CVD 5	B		✓
Cystatin C	CVD 6	B		✓
E-cadherin	Breast Cancer 3	C	✓	✓
EGF	Cancer Panel 2	A		✓
EGFR	RTK Total, Breast Cancer 2	C	✓	✓
sEGFR	Cancer Panel 2	A		✓
EGFR pTyr	RTK pTyr	C	✓	✓
EN-RAGE	CVD 6	B		✓
Epiregulin	Cancer Panel 2	A		✓
E-selectin	CVD 3	B		✓
Estrogen Receptor α	Breast Cancer 2	C	✓	✓
Fas	Breast Cancer 2	C	✓	✓
Fetuin A	CVD 5	B		✓
FGF-basic	Cancer Panel 2	A		✓
Fibrinogen	CVD 5	B		✓
FSH	Hormone 1	A		✓
GLP-1 (Active)	Metabolism 2	A		✓
GLP-1 (Total)	Metabolism 1	A		✓
Haptoglobin	CVD 5	B		✓
HB-EGF	Cancer Panel 2	A		✓
hCG-β	Hormone 1	A		✓
HER-2	RTK Total, Breast Cancer 1	C	✓	✓
HER-2 pTyr	RTK pTyr	C	✓	✓
H-FABP	CVD 4	B		✓
HGFR	RTK Total	C	✓	✓
HGFR pTyr	RTK pTyr	C	✓	✓
ICAM-1	CVD 3	B		✓
IGF-1R	RTK Total, Breast Cancer 1	C	✓	✓
IGF-1R pTyr	RTK pTyr	C	✓	✓
IGFBP-3	Breast Cancer 3	C	✓	✓
IL-6	CVD 2	B		✓
IL-8	CVD 2	B		✓
Insulin	Metabolism 1	A		✓
Leptin	Metabolism 1, CVD 3	A, B		✓
LH	Hormone 1	A		✓
LOX-1	CVD 4	B		✓
Lp(a)	CVD 5	B		✓
MCP-1	CVD 2	B		✓
MDA-LDL	CVD 4	B		✓
MIP-1α	CVD 2	B		✓
MIP-1β	CVD 2	B		✓
MMP-1	MMP	C		✓
MMP-3	MMP	C		✓
MMP-8	MMP	C		✓
MMP-9	MMP	C		✓

Analyte	Assay Kit	Page	Singleplex	Multiplex
MMP-10	MMP	C		✓
MMP-13	MMP	C		✓
Myeloperoxidase	CVD 4	B		✓
NT-Pro-BNP	CVD 4	B		✓
Osteopontin	CVD 3	B		✓
PAI-1	Breast Cancer 1	C	✓	✓
PAI-1	CVD 6	B		✓
PDGF-BB	Cancer Panel 2	A		✓
PDGFRβ	RTK Total	C	✓	✓
PDGFRβ pTyr	RTK pTyr	C	✓	✓
PIGF	Cancer Panel 2	A		✓
PP	Metabolism 1	A		✓
Progesterone	Hormone 1	A		✓
Progesterone Receptor	Breast Cancer 1	C	✓	✓
Prolactin	Cancer Panel 1	A		✓
P-selectin	CVD 3	B		✓
PYY	Metabolism 2	A		✓
Resistin	Metabolism 1	A		✓
SAP	CVD 5	B		✓
Secretin	Metabolism 2	A		✓
sRAGE	CVD 3	B		✓
Tenascin C	Cancer Panel 2	A		✓
Testosterone	Hormone 1	A		✓
TGF-α	Cancer Panel 2	A		✓
Thrombomodulin	CVD 4	B		✓
Tie-2	RTK Total	C	✓	✓
Tie-2 pTyr	RTK pTyr	C	✓	✓
TIMP-1	Breast Cancer 3	C	✓	✓
TIMP-2	Breast Cancer 2	C	✓	✓
TNF-α	CVD 2	B		✓
TSH	Metabolism 1	A		✓
uPA	Breast Cancer 3	C	✓	✓
VCAM-1	CVD 6	B		✓
VEGF	Cancer Panel 2	A		✓
VEGFR2	RTK Total, Breast Cancer 2	C	✓	✓
VEGFR2 pTyr	RTK pTyr	C	✓	✓
vWF	CVD 5	B		✓
Human / Mouse				
B-Raf (pS446)	EpiTag™ ERK 1	C	✓	✓
ERK1 (pT202/pY204)	EpiTag™ ERK 1	C	✓	✓
ERK1 Total	EpiTag™ ERK 1	C	✓	✓
ERK2 (pT185/pY187)	EpiTag™ ERK 1	C	✓	✓
ERK2 Total	EpiTag™ ERK 1	C	✓	✓
MEK1 Total	EpiTag™ ERK 2	C	✓	✓
MEK1/2 (pS217, pS221/ pS222, pS226)	EpiTag™ ERK 1, 2	C	✓	✓
MEK2 Total	EpiTag™ ERK 2	C	✓	✓
Raf1 (pS338)	EpiTag™ ERK 2	C	✓	✓
Raf1 Total	EpiTag™ ERK 2	C	✓	✓
Raf1 Total High Sensitivity	EpiTag™ ERK Additional	C	✓	✓
RSK2 (pS386)	EpiTag™ ERK Additional	C	✓	✓
STAT1 Total	EpiTag™ ERK 2	C	✓	✓
STAT3 (pS727)	EpiTag™ ERK Additional	C	✓	✓
Rat				
ACE	Rat Metabolism 1	A		✓
β2-microglobulin	Rat Kidney 1	B		✓
Calbindin	Rat Kidney 2	B		✓
Clusterin / Apo J	Rat Kidney 2	B		✓
Cystatin C	Rat Kidney 2	B		✓
GLP-1 (Total)	Rat Metabolism 1	A		✓
Glucagon	Rat Metabolism 1	A		✓
GST-α	Rat Kidney 1	B		✓
Insulin	Rat Metabolism 1	A		✓
KIM-1	Rat Kidney 1	B		✓
Leptin	Rat Metabolism 1	A		✓
NGAL	Rat Kidney 2	A		✓
Osteopontin	Rat Kidney 2	A		✓
Resistin	Rat Metabolism 1	A		✓
TIMP-1	Rat Kidney 1	A		✓
VEGF	Rat Kidney 1	A		✓

Where indicated, individual assays can be multiplexed within each panel grouping. For multiplexing across select panels, please see the compatibility charts at www.emdbiosciences.com/widescreen

WideScreen™ Biomarker Assays, co-developed with Rules Based Medicine	
71984-3	WideScreen™ Human Cancer Panel 1
71995-3	WideScreen™ Human Cancer Panel 2
72006-3	WideScreen™ Human CVD Panel 1
72014-3	WideScreen™ Human CVD Panel 2
72048-3	WideScreen™ Human CVD Panel 3
72138-3	WideScreen™ Human CVD Panel 4
72144-3	WideScreen™ Human CVD Panel 5
72150-3	WideScreen™ Human CVD Panel 6
72276-3	WideScreen™ Human Hormone Panel 1
72283-3	WideScreen™ Human Metabolism Panel 1
72290-3	WideScreen™ Human Metabolism Panel 2
72296-3	WideScreen™ Rat Metabolism Panel 1
72164-3	WideScreen™ Rat Kidney Toxicity Panel 1
72174-3	WideScreen™ Rat Kidney Toxicity Panel 2
WideScreen™ EpiTag™ Assays	
71782-3	WideScreen™ EpiTag™ ERK Pathway Panel I Complete Kit
71891-3	WideScreen™ EpiTag™ ERK Pathway Panel II Complete Kit
71784-3	WideScreen™ EpiTag™ Cell Lysis Kit
71785-3	WideScreen™ EpiTag™ Digest Kit
71794-3	WideScreen™ EpiTag™ Combo Reagent Kit
71791-3	EpiTag™ ERK Pathway Standards Mix
71826-3	EpiTag™ ERK Pathway Panel I
71890-3	EpiTag™ ERK Pathway Panel II
71829-3	EpiTag™ ERK1 Total Bead Kit
71830-3	EpiTag™ ERK2 Total Bead Kit
71831-3	EpiTag™ B-Raf (pS446) Bead Kit
71832-3	EpiTag™ MEK1/2(pS217,pS221 / pS222,pS226) Bead Kit
71833-3	EpiTag™ ERK1 (pT202, pY204) Bead Kit
71834-3	EpiTag™ ERK2 (pT185, pY187) Bead Kit
71835-3	EpiTag™ MEK1 Total Bead Kit
71836-3	EpiTag™ MEK2 Total Bead Kit
71837-3	EpiTag™ STAT1 Total Bead Kit
71838-3	EpiTag™ Raf1 Total Bead Kit
71839-3	EpiTag™ Raf1 (pS338) Bead Kit
72307-3	EpiTag™ Raf1 Total High Sensitivity Bead Kit
72199-3	EpiTag™ RSK2 (pS386) Bead Kit
72198-3	EpiTag™ STAT3 (pS727) Total Bead Kit
WideScreen™ RTK Assays	
71943-3	WideScreen™ RTK pTyr Assay Complete Kit
71942-3	WideScreen™ RTK Total Assay Complete Kit
71926-3	Cell Extraction Kit
71924-3	RTK Total 7-Plex

71925-3	RTK pTyr 7-Plex
71935-3	EGFR pTyr Bead Kit
71936-3	IGF-1R pTyr Bead Kit
71937-3	HGFR pTyr Bead Kit
71938-3	PDGFRβ pTyr Bead Kit
71939-3	HER-2 pTyr Bead Kit
71940-3	VEGFR2 pTyr Bead Kit
71941-3	Tie-2 pTyr Bead Kit
71928-3	EGFR Total Bead Kit
71929-3	IGF-1R Total Bead Kit
71930-3	HGFR Total Bead Kit
71931-3	PDGFRβ Total Bead Kit
71932-3	HER-2 Total Bead Kit
71933-3	VEGFR2 Total Bead Kit
71934-3	Tie-2 Total Bead Kit
WideScreen™ Breast Cancer Assays	
72088-3	WideScreen™ Breast Cancer Panel I Complete Kit
72089-3	WideScreen™ Breast Cancer Panel II Complete Kit
72090-3	WideScreen™ Breast Cancer Panel III Complete Kit
71926-3	Cell Extraction Kit
72085-3	Breast Cancer Panel I, 6 -Plex
72086-3	Breast Cancer Panel II, 5-Plex
72087-3	Breast Cancer Panel III, 4-Plex
72074-3	Angiogenin Total Bead Kit
72075-3	Angiopoietin-2 Total Bead Kit
72076-3	E-Cadherin Total Bead Kit
72077-3	ERα Total Bead Kit
72078-3	Fas Total Bead Kit
72079-3	IGFBP-3 Total Bead Kit
72080-3	PAI-1 Total Bead Kit
72081-3	Progesterone Receptor Total Bead Kit
72082-3	TIMP-1 Total Bead Kit
72083-3	TIMP-2 Total Bead Kit
72084-3	uPA Total Bead Kit
71928-3	EGFR Total Bead Kit
71929-3	IGF-1R Total Bead Kit
71932-3	HER-2 Total Bead Kit
71933-3	VEGFR2 Total Bead Kit
WideScreen™ Human MMP Assays	
72137-3	WideScreen™ Human MMP Panel
WideScreen™ Accessory Products	
71783-3	WideScreen™ Reagent Kit

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Printed in the USA

10003176 US
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