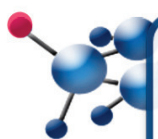


## Signal Transduction Antibody Microarray

<b>CATALOG #:</b>	<b>AST-100</b> 2 slides
<b>INTENDED USE:</b>	For Research Use Only. Not for use in diagnostic procedures.
<b>STORAGE:</b>	2-8°C
<b>DESCRIPTION:</b>	Each Signal Transduction Antibody Array includes 165 highly specific and well-characterized antibodies in the Signal Transduction pathway; each has six replicates. The arrays are printed on standard-size coated glass microscope slides and can be scanned on all microarray scanners that are compatible with 76 x 25 x 1 mm (3 in. x 1 in. x 1mm) slides.
<b>APPLICATIONS:</b>	<ul style="list-style-type: none"> <li>• Protein expression profiling</li> <li>• Profile comparison of normal, diseased or treated samples</li> <li>• Identification of candidate biomarkers</li> </ul>
<b>KEY FEATURES:</b>	<ul style="list-style-type: none"> <li>• Microarray format for high throughput expression profiling in cells, tissues and body fluids</li> <li>• 3-D polymer based glass substrates</li> <li>• High specificity and affinity, low background</li> <li>• Suitable for detection on all fluorescent microarray scanners compatible with 76x25x1mm slides</li> <li>• Each antibody is spotted with a duplicated for more reliable and consistent results</li> <li>• GenePix Array List (GAL) files are provided for more convenient and accurate data analysis</li> </ul>
<b>ADDITIONAL PRODUCTS:</b>	It is recommended to use the <b>Antibody Microarray Detection Kit (AMD-001)</b> . The reagent and buffer components of this kit have been optimized for protein extraction, labeling, conjugation and detection.
<b>REFERENCES:</b>	<ol style="list-style-type: none"> <li>1. Hodgkinson VC, et al. Biomarkers of chemotherapy resistance in breast cancer identified by proteomics: Current status. <i>Cancer Letters</i>. 2010;294:13-24.</li> <li>2. Borrebaeck CA. Antibody microarray-based oncoproteomics. <i>Expert Opin Biol Ther</i>. 2006 Aug;6(8):833-8.</li> <li>3. Borrebaeck CA, Wingren C. High-throughput proteomics using antibody microarrays: an update. <i>Expert Rev Mol Diagn</i>. 2007 Sep;7(5):673-86.</li> <li>4. Tao SC, et al. Applications of protein microarray technology. <i>Comb Chem High Throughput Screen</i>. 2007 Sep;10(8):706-18.</li> <li>5. Wingren C, Borrebaeck CA. Antibody-based microarrays. <i>Methods Mol Biol</i>. 2009;509:57-84.</li> </ol>
<b>TABLE OF CONTENTS:</b>	<p>The following information is included in this product datasheet:</p> <ul style="list-style-type: none"> <li>• Antibody Microarray Layout</li> <li>• Antibody List</li> <li>• GAL File</li> </ul>



### UK & Rest of World

184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

### Switzerland

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

### Deutschland

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

### United States

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

# Signal Transduction Antibody Array (AST-100)

## Array Layout

### Total Antibodies: 165

AST-100  
Rev A

**Block 1**

	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26	c27	c28
r1	P	E	E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	P
r2	P	E	E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	P
r3	P	E	E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	P
r4	P	E	E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	P
r5	P	E	E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	P
r6	P	E	E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	P

**Block 2**

	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26	c27	c28
r1	P	E	E	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	P
r2	P	E	E	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	P
r3	P	E	E	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	P
r4	P	E	E	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	P
r5	P	E	E	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	P
r6	P	E	E	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	P

**Block 3**

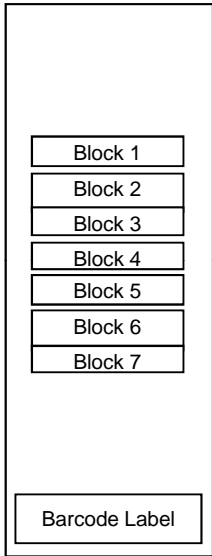
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r1	P	E	E	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	P
r2	P	E	E	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	P
r3	P	E	E	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	P
r4	P	E	E	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	P
r5	P	E	E	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	P
r6	P	E	E	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	P

**Block 4**

	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26	c27	c28
r1	P	E	E	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	P
r2	P	E	E	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	P
r3	P	E	E	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	P
r4	P	E	E	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	P
r5	P	E	E	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	P
r6	P	E	E	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	P

**Block 5**

	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26	c27	c28
r1	P	E	E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	P
r2	P	E	E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	P
r3	P	E	E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	P
r4	P	E	E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	P
r5	P	E	E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	P
r6	P	E	E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	P



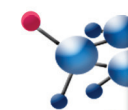
A = Beta actin  
E = Empty  
G = GAPDH  
N = Negative control  
P = Positive marker

# Signal Transduction Antibody Microarray (AST-100) Antibody List

AST-100  
Rev A

Legend: H=Human, A=Adenovirus, C=Cat, Ch=Chinese Hamster, D=Dog, K=Chicken, M=Mouse, P=Pig, R=Rat, S=Hamster, T=Rabbit, W=Cow, X=Xenopus, Y=Monkey

ID	Antibody Name	Reactivity	IG Isotype	Epitope	Source	Notes
1	Nck	HMR	N/A	Not determined	Rabbit	
2	DNA Polymerase Gamma	HM	N/A	aa714-1061	Rabbit	
3	Gab-1	HMR Y	N/A	aa 675-694	Rabbit	
4	SIRP a1	HY	N/A	aa476-503	Rabbit	Does not react with mouse.
5	DNA Primase (p49)	HM	N/A	Not determined	Rabbit	
6	DNA Primase (p58)	HM	N/A	Not determined	Rabbit	
7	Endostatin	H	N/A	Not determined	Rabbit	
8	Stat-1	H	N/A	C-terminal	Rabbit	
9	Stat3	HMR	N/A	C-terminal	Rabbit	
10	Stat5a	HMR	N/A	C-terminal	Rabbit	
11	Stat5b	HMR	N/A	C-terminal	Rabbit	
12	Stat6	HMR	N/A	C-terminal	Rabbit	
13	Heat Shock Protein 27/hsp27	HY	IgG1	Not determined	Mouse	Does not react with mouse or rat.
14	Heat Shock Protein 90b/hsp84	HMR	N/A	aa 2-13	Rabbit	
15	Heat Shock Protein 60/hsp60	HMRKS	IgG1	aa 383-447	Mouse	Does not react with bacteria.
16	Epithelial Specific Antigen	H	IgG1 / $\kappa$	Not determined	Mouse	Does not reach with rat.
17	EMA/CA15-3/MUC-1	H	IgG1 / $\kappa$	APDTR in tandem repeats	Mouse	
18	Lck	HMR	IgG2b / $\kappa$	aa 1-225	Mouse	
19	Estrogen Receptor	HMRTW	IgG1 / $\lambda$	aa 125-165	Mouse	
20	Ribonucleoprotein	H	IgM	Not determined	Mouse	
21	Alpha Fetoprotein (AFP)	HDP	IgG2a	Not determined	Mouse	It does not react with cow, cat, mouse, and rat.
22	MAP1B	HRW	IgG1	Not determined	Mouse	
23	MAP2a,b	HMRKW	IgG1	aa 997-1332	Mouse	
24	P53	H	IgG1	aa 212-217	Mouse	
25	E2F-2	HR	IgG1	aa 1-85	Mouse	
26	Amphiregulin	HM	N/A	aa 8-26	Rabbit	Synthetic 19-mer peptide, corresponding to aa 8-26 (VKPPQNKTESENTSDKPKR)
27	E2F-3	HR	IgG2b	aa 1-132	Mouse	
28	EGFR	H	N/A	aa 985-996 (Cytoplasmic domain)	Mouse	Does not react with mouse or rat.



#### UK & Rest of World

184 Millon Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

#### Switzerland

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

#### Deutschland

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

#### United States

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Lake Forest, CA 92630  
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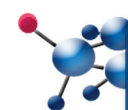
**amsbio**  
info@amsbio.com

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ID	Antibody Name	Reactivity	IG Isotype	Epitope	Source	Notes
29	Syk	H	N/A	aa 313-339	Mouse	Does not react with mouse or pig.
30	Mekk-1	HMR	N/A	Near C-terminus	Rabbit	
31	Fyn	HMR	IgG1 / $\kappa$	aa 26-75	Mouse	
32	DNA-PKcs	HR	IgG1	aa 1-2713	Mouse	
33	Heat Shock Factor 1	HMR	IgG1	aa 425-439 of mouse HSF1	Rat	
34	Heat Shock Factor 2	HMK	IgG1	Not determined	Rat	
35	TNF $\alpha$	H	IgG1	Not determined	Mouse	
36	PAX-5	HMR	N/A	C-terminal	Rabbit	
37	Interferon-g	H	IgG1 / $\kappa$	Not determined	Mouse	
38	Androgen Receptor	HD	IgG1	aa 299-315	Mouse	Does not react with mouse.
39	Phosphotyrosine	All	IgG2b	Not determined	Mouse	
40	Heat Shock Protein 70/hsp70	HKW	IgG2a	Not determined	Mouse	
41	Dystrophin	HMRKX	IgG1	Not determined	Mouse	
42	Lewis <sup>A</sup>	H	IgG1 / $\kappa$	Gal $\beta$ 1-3(Fuc $\alpha$ 1-4) GlcNAc	Mouse	Does not react with rat.
43	CD8	H	IgG1 / $\kappa$	Not determined	Mouse	
44	Interferon-a(II)	H	IgG1 / $\kappa$	aa 43-53	Mouse	
45	Adenovirus Type 5 E1A	A	IgG2a / $\kappa$	Not determined	Mouse	
46	Adenovirus Type 2 E1A	A	IgG2a / $\kappa$	Not determined	Mouse	
47	MART-1/Melan-A	H	IgG2b / $\kappa$	Not determined	Mouse	Does not react with mouse or rat.
48	Histone H1	H	IgG2a	Not determined	Mouse	
49	Insulin Receptor Substrate-1	HMR	IgG1	aa 1221-1235	Mouse	
50	Insulin Receptor	H	IgG2a / $\kappa$	aa 469-592 (exon 7/8)	Mouse	Does not react with mouse, rat or rabbit.
51	IGF-1R	H	IgG1	aa 283-440 (exon 4-6)	Mouse	Weakly reacts with Rabbit.5 Does not react with rat.
52	ERCC1	H	IgG2a / $\kappa$	Not determined	Mouse	
53	Hepatocyte Growth Factor	H	IgG2b	Not determined	Mouse	
54	Ezrin/p81/80K/Cytovillin	HMRSTWY	IgG1	aa 362-585	Mouse	
55	Maltose Binding Protein	Bacteria	IgM	Not determined	Mouse	Reacts with proteins from all species which are tagged with MBP.
56	Mcl-1	H	IgG1 / $\kappa$	aa 1-327	Mouse	
57	CREB-Binding Protein	HR	IgG1 / $\kappa$	Not determined	Mouse	



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184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

#### Switzerland

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

#### Deutschland

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
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#### United States

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: +1 800 987 0985  
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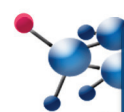
**amsbio**  
info@amsbio.com

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ID	Antibody Name	Reactivity	IG Isotype	Epitope	Source	Notes
58	TTF-1	H	IgG1	Not determined	Mouse	
59	HIF-1a	H	IgG1 / $\kappa$	aa 530-826	Mouse	
60	Factor VIII Related Antigen	H	N/A	Not determined	Rabbit	
61	HPV 16-E7	HPV-16	IgG2a / $\kappa$	Not determined	Mouse	
62	HPV 16	HPV-16	IgG2a	Not determined	Mouse	
63	Microphthalmia	HMRD	IgG1 / $\kappa$	N-terminal	Mouse	
64	DNA Ligase I	HW	IgG1	Not determined	Mouse	
65	E2F-1	HMR	IgG2a / $\kappa$	aa1-89	Mouse	
66	Alpha Lactalbumin	H	IgM	Not determined	Mouse	
67	c-Abl	HM	IgG1 / $\gamma$	SH2 domain	Mouse	
68	IgA	H	IgG1 / $\kappa$	Third constant domain (CH3) of the alpha chain of IgA	Mouse	
69	Alkaline Phosphatase (AP)	H	IgG1 / $\kappa$	Not determined	Mouse	
70	ERK1	HMR	N/A	N-terminal	Rabbit	
71	Lewis <sup>B</sup>	H	IgG1 / $\kappa$	Not determined	Mouse	
72	Adenovirus Fiber	A	IgG2a / $\kappa$	Not determined	Mouse	
73	FSH-b	H	IgG1 / $\kappa$	Not determined	Mouse	Only recognizes the free beta subunit (22kDa) of follicle stimulating hormone
74	Estriol	All	IgG1	Not determined	Rat	
75	Leukotriene (C4, D4, E4)	N/A	IgG1	Not determined	Rat	
76	FADD	HM	N/A	Middle of mouse FADD	Rabbit	
77	E2F-4	HR	IgG1	Not determined	Mouse	
78	Adenovirus	A	IgG2a / $\kappa$ + IgG2a / $\kappa$	Not determined	Mouse	
79	GRIP1	H	IgG1 / $\kappa$	Not determined	Mouse	
80	CDC25C	H	IgG1 / $\kappa$	aa 1-150	Mouse	
81	GCDFP-15	HR	IgG2a / $\kappa$	Not determined	Mouse	
82	ER Ca+2 ATPase2	N/A				
83	c-JUN	H	N/A	Not determined	Rabbit	
84	SHP-1	H	IgG2b / $\kappa$	Not determined	Mouse	
85	Amyloid A	H	IgG2a / $\kappa$	Not determined	Mouse	
86	Rhodopsin (Opsin)	HMR	IgG1	Not determined	Mouse	



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OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
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#### Switzerland

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
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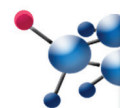
**amsbio**  
info@amsbio.com

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ID	Antibody Name	Reactivity	IG Isotype	Epitope	Source	Notes
87	ADP-ribosylation Factor (ARF-6)	H	IgG1 / $\kappa$	Not determined	Mouse	
88	Hepatocyte Factor Homologue-4	HR	IgG1 / $\kappa$	Not determined	Mouse	
89	Hepatic Nuclear Factor-3B	H	IgG2a / $\kappa$	Not determined	Mouse	
90	Heat Shock Protein 75/hsp75	H	IgG	Not determined	Mouse	
91	c-Src	HMR	N/A	N-terminal	Rabbit	
92	Insulin	HRPTW	IgG1 / $\kappa$	Not determined	Mouse	
93	DNA Polymerase Beta	H	IgG2a	Not determined	Mouse	
94	DP-2	HMR	N/A	C-terminus	Rabbit	
95	E2F-5	HMR	N/A	N-terminal	Rabbit	
96	Glucagon	HMR		Not determined	Rabbit	Shows broad reactivity in mammals.
97	Chk1	H	IgG2b / $\kappa$	Not determined	Mouse	
98	ITK	HM	IgG1 / $\kappa$	N-terminal	Mouse	
99	FSH	HW	IgG1 / $\kappa$	Not determined	Mouse	Reacts with the beta subunit of both free and intact of follicle stimulating hormone
100	Grb2	HMRW	IgG1 / $\kappa$	aa 54-62	Mouse	
101	14.3.3 gamma	H	IgG1 / $\kappa$	Not determined	Mouse	
102	14.3.3, Pan	H	IgG1 / $\kappa$	Not determined	Mouse	
103	FLT-1/VEGFR1	HMR	N/A	C-terminal	Rabbit	
104	NOS-u	HMRPW	N/A	C-terminal	Rabbit	
105	Fra2	H	N/A	C-terminal	Rabbit	
106	ERK2	HMR	N/A	Not	Rabbit	
107	Glycogen Synthase Kinase 3b (GSK3b)	HMRW	N/A	Kinase subdomain XI region	Rabbit	
108	Granzyme B	HR	N/A	aa 139-157	Rabbit	A synthetic peptide from the middle of mature granzyme B of human origin.
109	NOS-i	HMR	N/A	C-terminal	Rabbit	
110	PHAS-I	HMR	N/A	C-terminal	Rabbit	
111	NF kappa B / p65 (Rel A)	HDMPRSTW	N/A	C-terminal	Mouse	
112	Amyloid A4 Protein Precursor	HMR	N/A	Extreme C-terminus	Rabbit	
113	Amyloid Beta (APP)	HMR	N/A	aa653-662 (DAEFRHDSGY)	Rabbit	
114	NF kappa B / p50	H	N/A	aa44-61	Rabbit	



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Fax: +41 (0) 91 605 17 85

#### Deutschland

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

#### United States

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: +1 800 987 0985  
Fax: +1 949 265 7703

**amsbio**  
info@amsbio.com

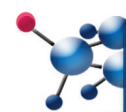


# Signal Transduction Antibody Microarray (AST-100) Antibody List

AST-100  
Rev A

Legend: H=Human, A=Adenovirus, C=Cat, Ch=Chinese Hamster, D=Dog, K=Chicken, M=Mouse, P=Pig, R=Rat, S=Hamster, T=Rabbit, W=Cow, X=Xenopus, Y=Monkey

ID	Antibody Name	Reactivity	IG Isotype	Epitope	Source	Notes
115	Lck (p56 <sup>lck</sup> )	H	N/A	Near the N-terminus	Rabbit	
116	Mek1	HMR	N/A	N-terminal	Rabbit	
117	Mek2	HMR	N/A	N-terminal	Rabbit	
118	Mek6	HMR	N/A	N-terminal	Rabbit	
119	I-Kappa-B Kinase b (IKKb)	HMR	N/A	Near C-terminus	Rabbit	
120	JNK Activating kinase (JKK1)	HMR	N/A	Near C-terminus	Rabbit	
121	FLIP	HM	N/A	C-terminal	Rabbit	
122	Raf1	HMRF	N/A	Middle of Raf1	Rabbit	
123	Bonzo / STRL33 / TYMSTR	H	N/A	Near the C-terminus	Rabbit	
124	CREB	HMR	N/A	Middle region	Rabbit	
125	Raf-1 (Phospho-specific)	H	IgG1	GQRDS*SY*WEIEAS	Rat	
126	Superoxide Dismutase	H	IgG1	N-terminal domains I-V	Mouse	
127	Hepatocyte	H	IgG1 / κ	Not determined	Mouse	
128	IgM (m-Heavy Chain)	H	IgG1 / κ	Not determined	Mouse	
129	PHAS-II	H	N/A	Amino acids 99-120 of human PHAS-II	Rabbit	
130	Stat5	H	N/A	Amino acids 371-389 of human Stat5	Rabbit	
131	Dystrophin	HR	N/A	C-terminal	Rabbit	
132	Dysferlin	H	N/A	C-terminus	Rabbit	
133	GSK-3	HMRKY	N/A	C-terminal	Rabbit	
134	14-3-3 beta	HMR	N/A	N-terminal	Rabbit	
135	Phospho-Ser/Thr/Tyr	All	IgG1	Not determined	Mouse	
136	Amylin Peptide	H	N/A	N-terminal	Rabbit	
137	alpha-1-antitrypsin	H	N/A	Not determined	Rabbit	
138	HDAC1	HMR	N/A	C-terminus	Rabbit	
139	IGF-I	HMR	N/A	Not determined	Rabbit	
140	IL17	H	N/A	Not determined	Mouse	
141	IFN gamma	H	IgG1	Not determined	Mouse	
142	ER beta	HR	N/A	N-terminus	Rabbit	
143	IL-2	H	N/A	Not determined	Rat	
144	IL-10	H	N/A	Not determined	Rat	



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184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

#### Switzerland

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 65 22  
Fax: +41 (0) 91 605 17 85

#### Deutschland

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
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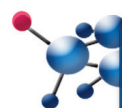
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ID	Antibody Name	Reactivity	IG Isotype	Epitope	Source	Notes
145	IL-30	H	N/A	Not determined	Rat	
146	IL-10R	H	N/A	Not determined	Rat	
147	TNF alpha	H	N/A	Not determined	Rat	
148	DJ-1	H	N/A	C-terminal	Rabbit	
149	SIM Ag (SIMA-4D3)	N/A				
150	E3-binding protein (ARM1)	N/A				
151	PDGFR-a	HMR	N/A	C-terminal	Rabbit	
152	Int-2 Oncoprotein	HM	IgG2a / κ	Not determined	Mouse	
153	DR5	HR	N/A	Amino acids 255-270 of rat DR5	Rabbit	
154	Epithelial Membrane Antigen (EMA / CA15-3 / MUC-1)	H	IgG1 / κ	Not determined	Mouse	
155	IRAK	HMR	N/A	C-terminal	Rabbit	
156	Integrin beta5	HMRS	N/A	Not determined	Mouse	
157	alpha-1-antichymotrypsin	H	N/A	Not determined	Rabbit	
158	Fli-1	HMR	N/A	C-terminal	Rabbit	
159	IL-3	H	N/A	Not determined	Rat	
160	IL-4	H	N/A	Not determined	Rat	
161	IL-5	H	N/A	Not determined	Rat	
162	IL-6	H	N/A	Not determined	Rat	
163	Heat Shock Protein 90a/hsp86	HMR	N/A	aa 2-12	Rabbit	
164	Flt-4	HMR	N/A	C-terminus	Rabbit	
165	PDGF	HR	N/A	101-116aa	Rabbit	



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Fax: +44 (0) 1235 820 482

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CH-6934 Bloggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

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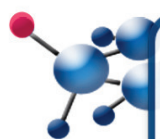
**amsbio**  
info@amsbio.com



## Signal Transduction Antibody Microarray (Cat. # AST-100)

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OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

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CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
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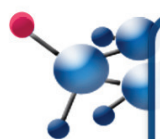
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#### United States

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: +1 800 987 0985  
Fax: +1 949 265 7703

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info@amsbio.com

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Fax: +44 (0) 1235 820 482

**Switzerland**

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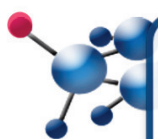
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Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

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 Tel: +41 (0) 91 604 55 22  
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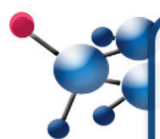
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 Fax: +49 (0) 69 13376880

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23591 El Toro Rd, Suite #167  
 Lake Forest, CA 92630  
 Tel: + 1 800 987 0985  
 Fax: + 1 949 265 7703

**amsbio**  
 info@amsbio.com

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Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
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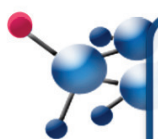
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Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
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3 1 13 TTF-1 58  
3 1 14 HIF-1a 59  
3 1 15 Factor VIII Related Antigen 60  
3 1 16 HPV 16-E7 61  
3 1 17 HPV 16 62  
3 1 18 Microphthalmia 63  
3 1 19 DNA Ligase I 64  
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3 1 21 Alpha Lactalbumin 66  
3 1 22 c-Abl 67  
3 1 23 IgA 68  
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3 2 8 Hepatocyte Growth Factor 53  
3 2 9 Ezrin/p81/80K/Cytovillin 54  
3 2 10 Maltose Binding Protein 55  
3 2 11 Mcl-1 56  
3 2 12 CREB-Binding Protein 57  
3 2 13 TTF-1 58  
3 2 14 HIF-1a 59  
3 2 15 Factor VIII Related Antigen 60



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CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

**Deutschland**

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

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3 4 16 HPV 16-E7 61



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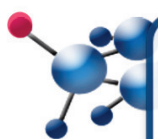
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Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

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3 6 17 HPV 16 62



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Fax: +44 (0) 1235 820 482

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CH-6934 Bioggio-Lugano  
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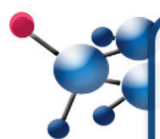
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60325 Frankfurt/Main  
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Fax: +49 (0) 69 13376880

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23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

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4 1 5 Estriol 74  
4 1 6 "Leukotriene (C4, D4, E4) " 75  
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4 1 8 E2F-4 77  
4 1 9 Adenovirus 78  
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4 1 12 GCDFP-15 81  
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4 1 15 SHP-1 84  
4 1 16 Amyloid A 85  
4 1 17 Rhodopsin (Opsin) 86  
4 1 18 ADP-ribosylation Factor (ARF-6) 87  
4 1 19 Hepatocyte Factor Homologue-4 88  
4 1 20 Hepatic Nuclear Factor-3B 89  
4 1 21 Heat Shock Protein 75/hsp75 90  
4 1 22 c-Src 91  
4 1 23 Insulin 92  
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4 1 26 E2F-5 95  
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4 2 14 c-JUN 83  
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4 2 16 Amyloid A 85  
4 2 17 Rhodopsin (Opsin) 86  
4 2 18 ADP-ribosylation Factor (ARF-6) 87



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Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

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CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

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23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

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4 3 17 Rhodopsin (Opsin) 86  
4 3 18 ADP-ribosylation Factor (ARF-6) 87  
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4 4 19 Hepatocyte Factor Homologue-4 88



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Fax: +44 (0) 1235 820 482

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CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

**Deutschland**

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

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 4 6 20 Hepatic Nuclear Factor-3B 89


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 Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
 CH-6934 Bioggio-Lugano  
 Tel: +41 (0) 91 604 55 22  
 Fax: +41 (0) 91 605 17 85

**Deutschland**

Bockenheimer Landstr. 17/19  
 60325 Frankfurt/Main  
 Tel: +49 (0) 69 779099  
 Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
 Lake Forest, CA 92630  
 Tel: + 1 800 987 0985  
 Fax: + 1 949 265 7703

**amsbio**  
 info@amsbio.com



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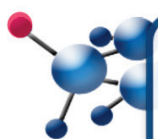
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Fax: +49 (0) 69 13376880

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23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: +1 800 987 0985  
Fax: +1 949 265 7703

**amsbio**  
info@amsbio.com

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Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

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OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

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CH-6934 Bioggio-Lugano  
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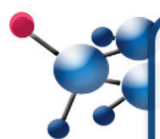
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60325 Frankfurt/Main  
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Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

5 6 24 Mek2 117  
5 6 25 Mek6 118  
5 6 26 I-Kappa-B Kinase b (IKKb) 119  
5 6 27 JNK Activating kinase (JNK1) 120  
5 6 28 Positive marker P  
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6 1 4 FLIP 121  
6 1 5 Raf1 122  
6 1 6 Bonzo / STRL33 / TYMSTR 123  
6 1 7 CREB 124  
6 1 8 Raf-1 (Phospho-specific) 125  
6 1 9 Superoxide Dismutase 126  
6 1 10 Hepatocyte 127  
6 1 11 IgM (m-Heavy Chain) 128  
6 1 12 PHAS-II 129  
6 1 13 Stat5 130  
6 1 14 Dystrophin 131  
6 1 15 Dysferlin 132  
6 1 16 GSK-3 133  
6 1 17 14-3-3 beta 134  
6 1 18 Phospho-Ser/Thr/Tyr 135  
6 1 19 Amylin Peptide 136  
6 1 20 alpha-1-antitrypsin 137  
6 1 21 HDAC1 138  
6 1 22 IGF-I 139  
6 1 23 IL17 140  
6 1 24 IFN gamma 141  
6 1 25 ER beta 142  
6 1 26 IL-2 143  
6 1 27 IL-10 144  
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6 2 10 Hepatocyte 127  
6 2 11 IgM (m-Heavy Chain) 128  
6 2 12 PHAS-II 129  
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6 2 15 Dysferlin 132  
6 2 16 GSK-3 133  
6 2 17 14-3-3 beta 134  
6 2 18 Phospho-Ser/Thr/Tyr 135  
6 2 19 Amylin Peptide 136  
6 2 20 alpha-1-antitrypsin 137  
6 2 21 HDAC1 138  
6 2 22 IGF-I 139  
6 2 23 IL17 140  
6 2 24 IFN gamma 141



**UK & Rest of World**

184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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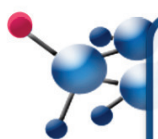
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60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

6 2 25 ER beta 142  
6 2 26 IL-2 143  
6 2 27 IL-10 144  
6 2 28 Positive marker P  
6 3 1 Positive marker P  
6 3 2 Empty E  
6 3 3 Empty E  
6 3 4 FLIP 121  
6 3 5 Raf1 122  
6 3 6 Bonzo / STRL33 / TYMSTR 123  
6 3 7 CREB 124  
6 3 8 Raf-1 (Phospho-specific) 125  
6 3 9 Superoxide Dismutase 126  
6 3 10 Hepatocyte 127  
6 3 11 IgM (m-Heavy Chain) 128  
6 3 12 PHAS-II 129  
6 3 13 Stat5 130  
6 3 14 Dystrophin 131  
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6 3 18 Phospho-Ser/Thr/Tyr 135  
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6 3 20 alpha-1-antitrypsin 137  
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6 3 22 IGF-I 139  
6 3 23 IL17 140  
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6 4 1 Positive marker P  
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6 4 13 Stat5 130  
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6 4 20 alpha-1-antitrypsin 137  
6 4 21 HDAC1 138  
6 4 22 IGF-I 139  
6 4 23 IL17 140  
6 4 24 IFN gamma 141  
6 4 25 ER beta 142



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184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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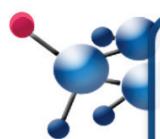
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60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

**amsbio**  
info@amsbio.com

6 4 26 IL-2 143  
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6 4 28 Positive marker P  
6 5 1 Positive marker P  
6 5 2 Empty E  
6 5 3 Empty E  
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6 5 7 CREB 124  
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6 6 23 IL17 140  
6 6 24 IFN gamma 141  
6 6 25 ER beta 142  
6 6 26 IL-2 143



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184 Milton Park, Abingdon  
OX14 4SE, Oxon, UK  
Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

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Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

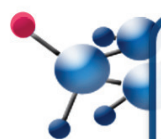
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23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
Fax: + 1 949 265 7703

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info@amsbio.com



6 6 27 IL-10 144  
6 6 28 Positive marker P  
7 1 1 Positive marker P  
7 1 2 Empty E  
7 1 3 Empty E  
7 1 4 IL-30 145  
7 1 5 IL-10R 146  
7 1 6 TNF alpha 147  
7 1 7 DJ-1 148  
7 1 8 SIM Ag (SIMA-4D3) 149  
7 1 9 E3-binding protein (ARM1) 150  
7 1 10 PDGFR-a 151  
7 1 11 Int-2 Oncoprotein 152  
7 1 12 DR5 153  
7 1 13 Epithelial Membrane Antigen (EMA / CA15-3 / MUC-1)154  
7 1 14 IRAK 155  
7 1 15 Integrin beta5 156  
7 1 16 alpha-1-antichymotrypsin 157  
7 1 17 Fli-1 158  
7 1 18 IL-3 159  
7 1 19 IL-4 160  
7 1 20 IL-5 161  
7 1 21 IL-6 162  
7 1 22 Heat Shock Protein 90a/hsp86 163  
7 1 23 Flt-4 164  
7 1 24 PDGF 165  
7 1 25 Beta Actin A  
7 1 26 GAPDH G  
7 1 27 Negative Control N  
7 1 28 Positive marker P  
7 2 1 Positive marker P  
7 2 2 Empty E  
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7 2 4 IL-30 145  
7 2 5 IL-10R 146  
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7 2 19 IL-4 160  
7 2 20 IL-5 161  
7 2 21 IL-6 162  
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7 2 23 Flt-4 164  
7 2 24 PDGF 165  
7 2 25 Beta Actin A  
7 2 26 GAPDH G  
7 2 27 Negative Control N



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Tel: +44 (0) 1235 828 200  
Fax: +44 (0) 1235 820 482

**Switzerland**

Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

**Deutschland**

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
Lake Forest, CA 92630  
Tel: + 1 800 987 0985  
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Tel: +44 (0) 1235 828 200  
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Centro Nord-Sud 2E  
CH-6934 Bioggio-Lugano  
Tel: +41 (0) 91 604 55 22  
Fax: +41 (0) 91 605 17 85

**Deutschland**

Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
Tel: +49 (0) 69 779099  
Fax: +49 (0) 69 13376880

**United States**

23591 El Toro Rd, Suite #167  
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184 Milton Park, Abingdon  
 OX14 4SE, Oxon, UK  
 Tel: +44 (0) 1235 828 200  
 Fax: +44 (0) 1235 820 482

## Switzerland

Centro Nord-Sud 2E  
 CH-6934 Bioggio-Lugano  
 Tel: +41 (0) 91 604 55 22  
 Fax: +41 (0) 91 605 17 85

## Deutschland

Bockenheimer Landstr. 17/19  
 60325 Frankfurt/Main  
 Tel: +49 (0) 69 779099  
 Fax: +49 (0) 69 13376880

## United States

23591 El Toro Rd, Suite #167  
 Lake Forest, CA 92630  
 Tel: + 1 800 987 0985  
 Fax: + 1 949 265 7703