

Panorama™ Ab Microarray - Cell Signaling
List of Antibodies

	ANTIBODY	SIGMA NO.	AREA	P/M	Reactivity		
					Human	Mouse	Rat
1	Apoptosis Inducing Factor (AIF)	A7549	Apoptosis	P	y	y	n/d
2	ARTS Clone:ARTS-51	A4471	Apoptosis	M	y	n/d	n/d
3	Bcl-x	B9304	Apoptosis	P	y	n/d	n/d
4	Bcl-XL Clone:2H12	B9429	Apoptosis	M	y	y	y
5	Caspase 3	C9598	Apoptosis	P	y	n/d	n/d
6	Bcl-10	B0431	Apoptosis	P	y	y	y
7	Caspase 3 –Active	C8487	Apoptosis	P	y	y	y
8	Caspase 4	C4481	Apoptosis	P	y	n/d	n/d
9	Caspase 4 Clone:CAS4	C3392	Apoptosis	M	y	n/d	n/d
10	Caspase 5 Clone:CAS5	C6979	Apoptosis	M	y	n/d	n/d
11	Caspase 6	C7599	Apoptosis	P	y	n/d	n/d
12	Caspase 7	C7724	Apoptosis	P	y	n/d	n/d
13	Caspase 8; Clone:CAS8	C4106	Apoptosis	M	y	n/d	n/d
14	Caspase 8	C3101	Apoptosis	P	y	n/d	n/d
15	Procaspase 8	C7849	Apoptosis	P	y	n/d	n/d
16	Caspase 9 Clone:CAS9	C4356	Apoptosis	M	y	n/d	n/d
17	Caspase 10	C8351	Apoptosis	P	y	n/d	n/d
18	Caspase 10 Clone:25C2	C1229	Apoptosis	M	y	n/d	n/d
19	Caspase 11	C1354	Apoptosis	M	n/d	y	n/d
20	Caspase 12 Clone:14F7	C7611	Apoptosis	M	y	y	y
21	Cathepsin D Clone:CTD-19	C0715	Apoptosis	M	y	n/d	n/d
22	Cystatin A Clone: WR-23/2/3/3	C3095	Apoptosis	M	y	n/d	n/d
23	DAXX	D7810	Apoptosis	P	y	n/d	n/d
24	DAPK Clone DAPK-55	D2178	Apoptosis	M	y	n/d	n/d
25	DAPK phospho (pS ³⁰⁸) Clone DAPKS308	D4941	Apoptosis	P	y	n/d	n/d
26	GADD 153 (CHOP-10)	G6916	Apoptosis	P	n/d	n/d	y
27	PAR4 (Prostate Apoptosis Response 4)	P5367	Apoptosis	P	y	y	y
28	Phosphatidyl serine Receptor (PSR)	P1495	Apoptosis	P	y	y	n/d
29	SMAC/DIABLO	S0941	Apoptosis	P	y	y	n/d
30	c-Abl Clone:ABL-148	A5844	Cell Cycle	M	y	y	y
31	Cdc25 Clone DCS-193	C0349	Cell Cycle	M	y	n/d	n/d
32	Cdc27 Clone:AF3.1	C7104	Cell Cycle	M	y	y	y
33	CDC6 Clone:DCS-180	C0224	Cell Cycle	M	y	n/d	n/d
34	Cdh1 Clone:DCS-266	C7855	Cell Cycle	M	y	n/d	n/d
35	Cdk4 Clone DCS-31	C8218	Cell Cycle	M	y	y	y
36	Cdk6 Clone DCS-90	C8343	Cell Cycle	M	y	y	y
37	Cdk-7/cak Clone MO-1.1	C7089	Cell Cycle	M	y	n/d	n/d
38	Chk1 Clone:DCS-310	C9358	Cell Cycle	M	y	n/d	n/d
39	Chk2 Clone:DCS-270	C9233	Cell Cycle	M	y	n/d	n/d
40	c-myc	C3956	Cell Cycle	P	y	n/d	n/d
41	c-Myc Clone:9E10	M5546	Cell Cycle	M	y	n/d	n/d
42	E2F1	E9026	Cell Cycle	P	y	n/d	n/d
43	Cyclin A	C4210	Cell Cycle	P	y	n/d	n/d
44	Cyclin A, Clone:CY-A1	C4710	Cell Cycle	M	y	y	n/d
45	Cyclin B1	C8831	Cell Cycle	P	y	y	n/d
46	Cyclin D1 Clone:DCS-6	C7464	Cell Cycle	M	y	y	y
47	Cyclin D2 Clone:DCS-3	C7339	Cell Cycle	M	y	y	n/d
48	Cyclin D3 Clone DCS-22	C7214	Cell Cycle	M	y	y	y
49	MDM2 Clone:HDM2-323	M7815	Cell Cycle	M	y	y	n/d
50	p14 ^{arr} Clone:DCS-240	P2610	Cell Cycle	M	y	n/d	n/d
51	p16 ^{INK4a/CDKN2} Clone:DCS-50	P0968	Cell Cycle	M	y	n/d	n/d
52	p19 ^{INK4d} Clone:DCS-100	P4354	Cell Cycle	M	y	n/d	n/d
53	p21 ^{Waf-1} Clone:CP-74	P1484	Cell Cycle	M	y	y	n/d
54	p34 ^{cdc2} Clone:A17	C3085	Cell Cycle	M	y	y	n/d
55	p35	P9489	Cell Cycle	P	y	n/d	y
56	p53 Clone:BP53-12	P5813	Cell Cycle	M	y	n/d	n/d
57	p57 ^{kip2} Clone:KP-39	P2735	Cell Cycle	M	y	y	n/d
58	p63 Clone:4A4	P3737	Cell Cycle	M	y	y	y
59	Retinoblastoma Phospho (pS ⁷⁹⁵)	R6878	Cell Cycle	M	y	y	y

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60	SMAD4 Clone:DCS-46	S3934	Cell Cycle	M	y	n/d	n/d
61	Ap-1/cjun	A5968	Nuclear	P	y	n/d	n/d
62	ATF2	A4086	Nuclear	P	y	n/d	n/d
63	CUG-BP1 Clone: HL1190	C5211	Nuclear	M	y	y	y
64	HAT1 (Histone acetyltransferase)	H7161	Nuclear	P	y	n/d	n/d
65	HDAC 1 (Histone Deacetylase 1)	H3284	Nuclear	P	y	y	n/d
66	HDAC 2 (Histone Deacetylase 2)	H3159	Nuclear	P	y	y	n/d
67	HDAC 4 (Histone Deacetylase 4)	H9536	Nuclear	P	y	y	y
68	SUV39H1 Histone Methyl Transferase; Clone:44.1	S8316	Nuclear	M	y	y	n/d
69	PCAF	P7493	Nuclear	P	y	n/d	n/d
70	hNRNP M3-M4 Clone:HC37	R3777	Nuclear	M	y	y	y
71	Phospho Histone H3 (pS ¹⁰) Clone:H3-P	H6409	Nuclear	M	y	n/d	n/d
72	Phospho Histone H3 (pS ²⁸) Clone:HTA28	H9908	Nuclear	M	y	y	n/d
73	Acetyl & phospho Histone H3	H9161	Nuclear	P	y	y	y
74	Acetyl Histone H3 (Ac-Lys ⁹)	H9286	Nuclear	P	y	y	y
75	RAN Clone:ARAN1	R4777	Nuclear	M	y	y	n/d
76	NTF2 Clone: 4f5	N9527	Nuclear	M	y	y	y
77	Topoisomerase-1 clone MAB1	T8573	Nuclear	M	y	n/d	n/d
78	Trf-1 Clone:TRF-78	T1948	Nuclear	M	y	n/d	n/d
79	Aop-1 Clone AOP-38	A7674	Cell Stress	M	y	y	y
80	HSP 70 Clone:BRM-22	H5147	Cell Stress	M	y	n/d	y
81	HSP 90 Clone:AC-16	H1775	Cell Stress	M	y	y	y
82	Nedd 8 Clone:ND23	N2786	Cell Stress	M	y	n/d	n/d
83	Calcineurin; Clone:CN-A1	C1956	Ca Associated Protein	M	y	n/d	y
84	Calmodulin	C0931	Ca Associated Protein	P	n/d	n/d	y
85	Calnexin	C4731	Ca Associated Protein	P	y	n/d	n/d
86	Calponin; Clone:hCp	C2687	Ca Associated Protein	M	y	y	y
87	Calreticulin	C4606	Ca Associated Protein	P	y	n/d	n/d
88	Actin	A5060	Cytoskeleton	P	y	y	y
89	Actin Clone:AC-40	A4700	Cytoskeleton	M	y	y	y
90	β Actin; Clone:AC-74	A5316	Cytoskeleton	M	y	y	y
91	Actopaxin	A1226	Cytoskeleton	P	y	n/d	n/d
92	Adaptin β1+β2 Clone 100/1	A4450	Cytoskeleton	M	n/d	n/d	y
93	βCOP Clone:maD	G6160	Cytoskeleton	M	y	n/d	y
94	α Catenin	C2081	Cytoskeleton	P	y	y	y
95	β Catenin; Clone:6F9	C7082	Cytoskeleton	M	y	n/d	n/d
96	Plakoglobin; Clone:15F11	P8087	Cytoskeleton	M	y	n/d	n/d
97	Caveolin-1 (ANTI VIP21)	C3237	Cytoskeleton	P	y	y	y
98	Clathrin Light Chain; Clone:CON.1	C1985	Cytoskeleton	M	y	y	y
99	Connexin 32	C3470	Cytoskeleton	P	y	y	y
100	Connexin 32 Clone:CXN-32	C6344	Cytoskeleton	M	y	y	y
101	Connexin 43; Clone:CXN-6	C8093	Cytoskeleton	M	y	y	y
102	Cytokeratin 8.12	C7034	Cytoskeleton	M	y	n/d	n/d
103	Cytokeratin pep 8.60	C7284	Cytoskeleton	M	y	n/d	n/d
104	Cytokeratin pep.19	C6930	Cytoskeleton	M	y	n/d	n/d
105	Cytokeratin pep.4	C5176	Cytoskeleton	M	y	n/d	n/d
106	Cytokeratin pep.7	C6417	Cytoskeleton	M	y	n/d	n/d
107	Cytokeratin pep.8.13	C6909	Cytoskeleton	M	y	n/d	n/d
108	Cytokeratin pep13	C0791	Cytoskeleton	M	y	n/d	n/d
109	Cytokeratin pep18	C1399	Cytoskeleton	M	y	n/d	n/d
110	Pan Cytokeratin	C2931	Cytoskeleton	M	y	n/d	y
111	Desmin; Clone:DE-U-10	D1033	Cytoskeleton	M	n/d	y	y
112	Dystrophin	D8168	Cytoskeleton	M	y	y	y
113	Ezrin; Clone:3C12	E8897	Cytoskeleton	M	y	y	n/d
114	Fibronectin Clone:FN-15	F7387	Cytoskeleton	M	y	y	n/d
115	Internexin α Clone:2E3	I0282	Cytoskeleton	M	y	n/d	y
116	MAP1	M4278	Cytoskeleton	M	n/d	y	y
117	MAP1b; Clone:AA6	M4528	Cytoskeleton	M	y	y	y
118	MAP2 (2a+2b)cl:ap-20	M1406	Cytoskeleton	M	n/d	y	y
119	OP18/Stathmin	O0138	Cytoskeleton	P	y	n/d	y
120	Myosin IIA	M8064	Cytoskeleton	P	y	n/d	y
121	Myosin Va (LE-16)	M5062	Cytoskeleton	P	y	y	y

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122	Pan Cadherin; Clone:CH-19	C1821	Cytoskeleton	M	y	y	y
123	Spectrin (alfa+beta)	S3396	Cytoskeleton	M	y	n/d	n/d
124	Tropomyosin	T2780	Cytoskeleton	M	y	y	y
125	Vinculin	V4505	Cytoskeleton	M	y	y	n/d
126	Chondroitin Sulfate Clone:CS-56	C8035	Cytoskeleton +ECM	M			
127	α Tubulin; Clone:B-5-1-2	T5168	Cytoskeleton	M	y	y	y
128	β Tubulin I; Clone:SAP-465	T7816	Cytoskeleton	M	y	y	y
129	β Tubulin III; Clone:SDL-3D10	T8660	Cytoskeleton	M	y	n/d	y
130	β Tubulin IV; Clone:ONS-1A2	T7941	Cytoskeleton	M	y	y	y
131	β Tubulin polyglutamylated; Clone:B3	T9822	Cytoskeleton	M	y	y	y
132	γ Tubulin	T3559	Cytoskeleton	P	y	n/d	n/d
133	α 1 syntrophin	S4813	Neurobiology	P	n/d	n/d	y
134	i-NOS	N7782	Neurobiology	P	n/d	y	y
135	i-NOS Clone:NOS-IN	N9657	Neurobiology	M	n/d	y	y
136	b-NOS	N7155	Neurobiology	P	y	n/d	y
137	b-NOS Clone:NOS-B1	N2280	Neurobiology	M	y	n/d	y
138	e-NOS	N2643	Neurobiology	P	y	y	n/d
139	e-NOS	N3893	Neurobiology	P	y	y	y
140	e-NOS; Clone:NOS-e1	N9532	Neurobiology	M	y	y	y
141	Amyloid Precursor Protein (APP)	A8967	Neurobiology	P	y	y	y
142	Amyloid Precursor Protein (APP) C-terminal	A8717	Neurobiology	P	y	y	y
143	CNPase CL:11-5B	C5922	Neurobiology	M	y	y	y
144	Cofilin	C8736	Neurobiology	P	y	y	y
145	DOPA Decarboxylase; Clone:DDC-109	D0180	Neurobiology	M	y	n/d	y
146	Dystrophin Clone:MANDRA-1	D8043	Neurobiology	M	y	y	y
147	Glutamate receptor NMDAR 2a	G9038	Neurobiology	P	y	y	y
148	Glutamic Acid Decarboxylase (GAD65/67)	G5163	Neurobiology	P	y	y	y
149	Glutamine Synthetase	G2781	Neurobiology	P	n/d	n/d	y
150	Nerve growth factor receptor (NGFR p75)	N3908	Neurobiology	P	n/d	n/d	y
151	Nerve Growth Factor Receptor	N5408	Neurobiology	M	y	n/d	n/d
152	KIF3A	K3513	Neurobiology	P	y	y	y
153	Nicastrin	N1660	Neurobiology	P	y	n/d	n/d
154	SNAP-25	S9684	Neurobiology	P	n/d	y	y
155	S-100 beta	S2532	Neurobiology	M	y	n/d	y
156	S-100 Clone:SH-A1	S2407	Neurobiology	M	y	n/d	n/d
157	Neurofilament 200	N4142	Neurobiology	P	y	y	y
158	Neurofilament 200	N0142	Neurobiology	M	y	y	y
159	Synaptotagmin	S2177	Neurobiology	P	y	y	n/d
160	Syntaxin; Clone:HPC-1	S0664	Neurobiology	M	n/d	n/d	y
161	Synuclein α	S3062	Neurobiology	P	y	n/d	y
162	Synuclein β ; Clone: PNP-14	S1436	Neurobiology	P	y	y	y
163	Tyrosin hydroxylase	T2928	Neurobiology	M	y	n/d	y
164	Tau Phospho (pS ^{199/202})	T6819	Neurobiology	P	y	y	y
165	p120 CTN	P2732	Neurobiology	P	y	y	y
166	Tryptophane Hydroxylase; Clone:WH-3	T0678	Neurobiology	M	y	n/d	y
167	ARNO (Cytohesin 2) Clone:CYT2-21	A4721	Signal Transduction	M	y	n/d	y
168	GAP1 CL:GP-3	G6666	Signal Transduction	M	y	n/d	n/d
169	GRP1(ARNO3 Cytohesin-3) Clone:CYT3	G6541	Signal Transduction	M	y	n/d	y
170	CRK-L	C0978	Signal Transduction	P	y	y	n/d
171	CAM Kinase II α	C6974	Signal Transduction	P	y	y	y
172	CAM Kinase IV (Ay-18)	C2851	Signal Transduction	P	y	y	y
173	EGF receptor Clone:F9	E3138	Signal Transduction	M	y	n/d	n/d
174	Estrogen Receptor (ER)	E0521	Signal Transduction	P	y	n/d	n/d
175	ERK5 (BIG MAPK-BMK1)	E1523	Signal Transduction	P	y	y	n/d
176	FAK (focal adhesion kinase)	F2918	Signal Transduction	R	y	y	n/d
177	FAK Phospho (pS ⁷⁷²)	F9051	Signal Transduction	P	y	y	y
178	FAK Phospho (pS ⁹¹⁰)	F9301	Signal Transduction	P	y	y	y
179	FAK Phospho (pY ⁵⁷⁷)	F8926	Signal Transduction	P	y	y	n/d
180	FAK phospho (pY397)	F7926	Signal Transduction	P	y	y	y
181	GRB-2; Clone:GRB-232	G2791	Signal Transduction	M	y	y	y
182	I κ B α	I0505	Signal Transduction	P	y	y	y
183	NAK	N2661	Signal Transduction	M	y	n/d	y
184	NF- κ B; Clone:NF-12	N8523	Signal Transduction	M	y	y	n/d

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185	JNK	J4500	Signal Transduction	P	y	y	y
186	JNK activated dipospo clone:JNK-PT	J4750	Signal Transduction	M	y	y	y
187	p38 MAPK	M0800	Signal Transduction	P	n/d	y	y
188	p38 MAPK activated (diphosphorylated p38) Clone:P38-TY	M8177	Signal Transduction	M			
189	Mcl-1	M8434	Signal Transduction	P	y	n/d	n/d
190	MAP Kinase (Erk1+Erk2)	M5670	Signal Transduction	P	y	y	y
191	MAP Kinase (ERK-1)	M7927	Signal Transduction	P	y	y	y
192	MAP Kinase activated dipospho, Clone MAPK YT	M8159	Signal Transduction	M			
193	MAP Kinase activated phosphothreonine Clone:ERK PT115	M7802	Signal Transduction	M	y	n/d	y
194	MAP Kinase activated phosphotyrosine Clone:ERK-PY193	M3682	Signal Transduction	M	y	n/d	y
195	MAPK non phosphorylated ERK Clone:ERK NP2	M3807	Signal Transduction	M	y	n/d	y
196	MAP Kinase activated protein kinase-2 (MAKAPK2)	M3550	Signal Transduction	P	y	y	n/d
197	Cdc7 Kinase	C6613	Signal Transduction	M	y	n/d	n/d
198	PAK phospho (pS ²¹²) Clone:PK-18	P3237	Signal Transduction	M	y	y	y
199	Phospholipase A2 group V	P5242	Signal Transduction	M	y	n/d	n/d
200	Phospholipase C γ 1	P8104	Signal Transduction	P	y	y	n/d
201	Phosphoserine Clone:PSR-45	P3430	Signal Transduction	M	y	y	y
202	Phosphotyrosine Clone:PT-154	P1869	Signal Transduction	M	y	y	y
203	Phosphothreonine Clone:PTR-8	P3555	Signal Transduction	M	y	y	y
204	PKB /AKT Clone:PKB-175	P2482	Signal Transduction	M	y	y	y
205	PKB/AKT	P1601	Signal Transduction	P	y	y	y
206	PKB phosphoserine 473 (pS ⁴⁷³)	P4112	Signal Transduction	P	n/d	y	y
207	PKB phosphothreonine 308 (pT ³⁰⁸)	P3862	Signal Transduction	P	n/d	y	y
208	PKC α	P4334	Signal Transduction	P	n/d	y	y
209	PKC β	P3203	Signal Transduction	P	n/d	n/d	y
210	PKC γ	P3328	Signal Transduction	P	n/d	n/d	y
211	PKC γ Clone:PK-G4	P8083	Signal Transduction	M	n/d	n/d	y
212	PKD	P3987	Signal Transduction	P	y	y	n/d
213	Map Kinase Phosphatase-1 (MKP-1)	M3787	Signal Transduction	P	y	n/d	n/d
214	Protein phosphatase 1 α	P7979	Signal Transduction	P	y	n/d	n/d
215	PTEN	P7482	Signal Transduction	P	y	n/d	y
216	PTEN Clone:PTN-18	P3487	Signal Transduction	M	y	y	y
217	SGK (serum and glucocorticoid inducible kinase)	S5188	Signal Transduction	P	y	n/d	n/d
218	Pyk2	P3902	Signal Transduction	P	y	y	y
219	Pyk2 Phospho (pY ⁵⁷⁹)	P7114	Signal Transduction	P	y	n/d	y
220	Pyk2 Phospho (pY ^{579/580})	P6989	Signal Transduction	P	y	n/d	n/d
221	Pyk2 Phospho (pY ⁵⁸⁰)	P6739	Signal Transduction	P	y	n/d	y
222	Pyk2 Phospho (pY ⁸⁸¹)	P6864	Signal Transduction	P	y	n/d	y
223	RAF1	R5773	Signal Transduction	P	y	n/d	y
224	Raf Phospho (pS ⁶²¹)	R1151	Signal Transduction	P	y	y	y