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## Product Information

### 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 <sup>308</sup> ) 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 <sup>arf</sup> Clone:DCS-240                   | P2610 | Cell Cycle | M | y | n/d | n/d |
| 51 | p16 <sup>INK4a/CDKN2</sup> Clone:DCS-50            | P0968 | Cell Cycle | M | y | n/d | n/d |
| 52 | p19 <sup>INK4d</sup> Clone:DCS-100                 | P4354 | Cell Cycle | M | y | n/d | n/d |
| 53 | p21 <sup>Waf-1</sup> Clone:CP-74                   | P1484 | Cell Cycle | M | y | y   | n/d |
| 54 | p34 <sup>cdc2</sup> 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 <sup>kip2</sup> 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 <sup>795</sup> )        | R6878 | Cell Cycle | M | y | y   | y   |
| 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;<br>Clone:44.1  | S8316 | Nuclear    | M |   | 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 <sup>10</sup> ) Clone:H3-P  | H6409 | Nuclear    | M | y | n/d | n/d |
| 72 | Phospho Histone H3 (pS <sup>28</sup> ) 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 <sup>9</sup> )           | 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                        | CloneTRF-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  | $\beta$ Actin;               | Clone:AC-74  | A5316 | Cytoskeleton          | M | y   | y   | y   |
| 91  | Actopaxin                    |              | A1226 | Cytoskeleton          | P | y   | n/d | n/d |
| 92  | Adaptin $\beta$ 1+ $\beta$ 2 | Clone 100/1  | A4450 | Cytoskeleton          | M | n/d | n/d | y   |
| 93  | $\beta$ COP                  | Clone:maD    | G6160 | Cytoskeleton          | M | y   | n/d | y   |
| 94  | $\alpha$ Catenin             |              | C2081 | Cytoskeleton          | P | y   | y   | y   |
| 95  | $\beta$ 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 $\alpha$ 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   |
| 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 | $\alpha$ Tubulin; Clone:B-5-1-2            | T5168 | Cytoskeleton      | M | y   | y   | y   |
| 128 | $\beta$ Tubulin I; Clone:SAP-465           | T7816 | Cytoskeleton      | M | y   | y   | y   |
| 129 | $\beta$ Tubulin III; Clone:SDL-3D10        | T8660 | Cytoskeleton      | M | y   | n/d | y   |
| 130 | $\beta$ Tubulin IV; Clone:ONS-1A2          | T7941 | Cytoskeleton      | M | y   | y   | y   |
| 131 | $\beta$ Tubulin polyglutamylated; Clone:B3 | T9822 | Cytoskeleton      | M | y   | y   | y   |
| 132 | $\gamma$ Tubulin                           | T3559 | Cytoskeleton      | P | y   | n/d | n/d |
| 133 | $\alpha$ 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 | Nicestrin                                  | 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 $\alpha$                         | S3062 | Neurobiology | P | y   | n/d | y   |
| 162 | Synuclein $\beta$ ; Clone: PNP-14          | S1436 | Neurobiology | P | y   | y   | y   |
| 163 | Tyrosin hydroxylase                        | T2928 | Neurobiology | M | y   | n/d | y   |
| 164 | Tau Phospho (pS <sup>199/202</sup> )       | 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   |

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|-----|---|-------|---------------------|---|-----|-----|-----|
| 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 $\alpha$                                    | 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 <sup>772</sup> )                          | F9051 | Signal Transduction | P | y   | y   | y   |
| 178 | FAK Phospho (pS <sup>910</sup> )                          | F9301 | Signal Transduction | P | y   | y   | y   |
| 179 | FAK Phospho (pY <sup>577</sup> )                          | 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 $\kappa$ B $\alpha$                                     | I0505 | Signal Transduction | P | y   | y   | y   |
| 183 | NAK   | N2661 | Signal Transduction | M | y   | n/d | y   |
| 184 | NF- $\kappa$ B; Clone:NF-12                               | N8523 | Signal Transduction | M | y   | y   | n/d |
| 185 | JNK   | J4500 | Signal Transduction | P | y   | y   | y   |
| 186 | JNK activated diphospo 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)<br>Clone:P38-TY | M8177 | Signal Transduction | M | y   | y   | y   |
| 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 diphospo, Clone<br>MAPK-YT           | M8159 | Signal Transduction | M | y   | y   | y   |

|     |  |       |                     |   |     |     |     |
|-----|--|-------|---------------------|---|-----|-----|-----|
| 193 | MAP Kinase activated phosphothreonine<br>Clone:ERK PT115 | M7802 | Signal Transduction | M | y   | n/d | y   |
| 194 | MAP Kinase activated phosphotyrosine<br>Clone:ERK-PY193  | M3682 | Signal Transduction | M | y   | n/d | y   |
| 195 | MAPK non phosphorylated ERK<br>Clone:ERK-NP2             | M3807 | Signal Transduction | M | y   | n/d | y   |
| 196 | MAP Kinase activated protein kinase-2<br>(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 <sup>212</sup> ) 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 $\gamma$ 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 <sup>473</sup> )               | P4112 | Signal Transduction | P | n/d | y   | y   |
| 207 | PKB phosphothreonine 308 (pT <sup>308</sup> )            | P3862 | Signal Transduction | P | n/d | y   | y   |
| 208 | PKC $\alpha$   | P4334 | Signal Transduction | P | n/d | y   | y   |
| 209 | PKC $\beta$  | P3203 | Signal Transduction | P | n/d | n/d | y   |
| 210 | PKC $\gamma$   | P3328 | Signal Transduction | P | n/d | n/d | y   |
| 211 | PKC $\gamma$ 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 $\alpha$                           | 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<br>kinase)       | S5188 | Signal Transduction | P | y   | n/d | n/d |



|     |                                       |       |                     |   |   |     |     |
|-----|---------------------------------------|-------|---------------------|---|---|-----|-----|
| 218 | Pyk2                                  | P3902 | Signal Transduction | P | y | y   | y   |
| 219 | Pyk2 Phospho (pY <sup>579</sup> )     | P7114 | Signal Transduction | P | y | n/d | y   |
| 220 | Pyk2 Phospho (pY <sup>579/580</sup> ) | P6989 | Signal Transduction | P | y | n/d | n/d |
| 221 | Pyk2 Phospho (pY <sup>580</sup> )     | P6739 | Signal Transduction | P | y | n/d | y   |
| 222 | Pyk2 Phospho (pY <sup>881</sup> )     | P6864 | Signal Transduction | P | y | n/d | y   |
| 223 | RAF1                                  | R5773 | Signal Transduction | P | y | n/d | y   |
| 224 | Raf Phospho (pS <sup>621</sup> )      | R1151 | Signal Transduction | P | y | y   | y   |