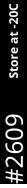
## PAK3 Antibody TECHNOLOGY\* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)



Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com

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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications:<br>W, IP       | <b>Reactivity:</b><br>H M R | <b>Sensitivity:</b><br>Endogenous  | <b>MW (kDa):</b><br>65   | <b>Source/Isotype:</b><br>Rabbit   | <b>UniProt ID:</b><br>#075914  | Entrez-Gene Id:<br>5063  |
|------------------------------|-----------------------------|--|--|--|--|--|
| Product Usage<br>Information | 2                           | Application<br>Western Blotting<br>Immunoprecipitation   |  |  | <b>Dilution</b><br>1:1000<br>1:50  |  |
| Storage                      |                             | Supplied in 10 mM soc<br>20°C. Do not aliquot th   |  | i), 150 mM NaCl, 100 μg/   | /ml BSA and 50% gl   | ycerol. Store at –   |
| Specificity/Sensitivity      |                             | PAK3 Antibody detects endogenous levels of total PAK3 protein. The antibody does not cross-react with PAK1, PAK2 or other PAK family members.  |  |  |  |  |
| Source / Purification        |                             | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminus of human PAK3. Antibodies are purified by protein A and peptide affinity chromatography.   |  |  |  |  |
| Background                   |                             | processes, including c<br>phagocyte NADPH oxi<br>that induce PAK activit<br>the amino terminus of<br>Phosphorylation of PA<br>sites have been identif<br>Because the autophos<br>been hypothesized tha<br>conformation (6). Rese<br>in the kinase inhibitor<br>PAK2 regulates bindin<br>similarity with PAK1-3<br>site analogous to Thr4               | ytoskeletal reorgar<br>dase, and growth f<br>y have been report<br>PAK causes autop<br>K1 at Thr423 by PD<br>fied, including Ser1<br>phorylation sites a<br>at modification in tl<br>earch indicates that<br>y domain) affects k<br>g with the adaptor<br>in the amino-termi<br>23 of PAK1, may pl   | serine/threonine kinases<br>nization, MAPK signaling,<br>actor-induced neurite of<br>ed. Binding of Rac/Cdc4<br>hosphorylation and conf<br>K induces activation of F<br>99 and Ser204 of PAK1,<br>re located in the amino-th<br>is region prevents the k<br>phosphorylation at Ser<br>inase activity (7). Phosph<br>protein Nck (8). PAK4, P/<br>nal regulatory region (9)<br>ay a pivotal role in regul<br>ressed, and often overex | , apoptotic signaling<br>utgrowth (1,2). Seve<br>2 to the CRIB (or PE<br>formational change<br>PAK1 (3). Several aud<br>and Ser192 and Ser<br>terminal inhibitory<br>kinase from revertin<br>144 of PAK1 or Ser1<br>orylation at Ser21 of<br>AK5/7, and PAK6 ha<br>b. Phosphorylation a<br>ating the activity ar | g, control of<br>ral mechanisms<br>3D) domain near<br>s in PAK (1).<br>tophosphorylation<br>197 of PAK2 (4,5).<br>domain, it has<br>g to an inactive<br>39 of PAK3 (located<br>of PAK1 or Ser20 of<br>ve lower sequence<br>at Ser474 of PAK4, a<br>nd function of PAK4 |
| Background R                 | eferences                   | 1. Knaus, U.G. and Bok<br>2. Daniels, R.H. et al. (1<br>3. King, C.C. et al. (200<br>4. Manser, E. et al. (199<br>5. Gatti, A. et al. (1999)<br>6. Lei, M. et al. (2000)<br>7. Chong, C. et al. (2000)<br>8. Zhao, Z. et al. (2000)<br>9. Abo, A. et al. (1998)<br>10. Qu, J. et al. (2001)<br>11. Wen, Y.Y. et al. (201<br>12. Molli, P.R. et al. (20 | <ul> <li>1998) EMBO J. 17, 7</li> <li>0) J. Biol. Chem. 275</li> <li>07) Mol. Cell. Biol. 1</li> <li>19. Biol. Chem. 274, Cell 102, 387-97.</li> <li>11) J. Biol. Chem. 27</li> <li>11) J. Biol. Chem. 27</li> <li>12) Mol. Cell. Biol. 20, EMBO J. 17, 6527-4</li> <li>14) Expert Opin The State Stat</li></ul> | 5, 41201-9.<br>7, 1129-43.<br>8022-8.<br>6, 17347-53.<br>3906-17.<br>0.<br>523-33.<br>er Targets 18, 807-15.   | 0, 857-62.   |  |
| Species Reacti               | ivity                       | Species reactivity is de   | termined by testin   | g in at least one approve  | ed application (e.g.,  | western blot).   |
| Western Blot I               | Buffer                      | IMPORTANT: For west<br>TBS, 0.1% Tween® 20   | ,  | membrane with diluted<br>shaking, overnight.   | primary antibody ir  | n 5% w/v BSA, 1X   |
| Applications <b>K</b>        | (ey                         | W: Western Blotting IF   | <b>9:</b> Immunoprecipita  | ation  |  |  |
| Cross-Reactivi               | ty Key                      | H: Human M: Mouse F  | <b>R:</b> Rat  |  |  |  |

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