PAK1/2/3 Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 61 (PAK2), 68 (PAK1/3)	Source/Isotype: Rabbit	UniProt ID: #Q13153, #Q13177, #O75914	Entrez-Gene Id: 5058, 5062, 5063
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PAK1/2/3 Antibody detects endogenous levels of PAK1, PAK2 and PAK3 protein. The antibody does not react with PAK4, PAK5 or PAK6.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy-terminus of human PAK1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		processes, including of phagocyte NADPH ox that induce PAK activithe amino terminus of Phosphorylation (6). Respectively in the kinase inhibitor PAK2 regulates binding similarity with PAK1-3 site analogous to Throsphorylation (5).	cytoskeletal reorgan idase, and growth faty have been report of PAK causes autoples. AK1 at Thr423 by PD iffied, including Ser1 sphorylation sites all at modification in the earch indicates that by domain) affects king with the adaptor in the amino-termin 423 of PAK1, may plaid.	ization, MAPK signalin actor-induced neurite ed. Binding of Rac/Cdo nosphorylation and co K induces activation o 99 and Ser204 of PAK1 e located in the amino his region prevents the phosphorylation at Se nase activity (7). Phos protein Nck (8). PAK4, nal regulatory region (ay a pivotal role in reg	es is engaged in multip 19, apoptotic signaling, 20, outgrowth (1,2). Severa 242 to the CRIB (or PBE 25, or PBE 26, and Ser192 and Ser192 26-terminal inhibitory of 27, and PAK1 or Ser132 28, phorylation at Ser21 of 29, Phosphorylation at 29, Phosphorylation at 29, Phosphorylation at 21, and PAK6 have 29, Phosphorylation at	control of al mechanisms b) domain near in PAK (1). phosphorylation 97 of PAK2 (4,5). omain, it has to an inactive 9 of PAK3 (located PAK1 or Ser20 of e lower sequence Ser474 of PAK4, a function of PAK4
Background References		 Knaus, U.G. and Bokoch, G.M. (1998) <i>Int. J. Biochem. Cell Biol.</i> 30, 857-62. Daniels, R.H. et al. (1998) <i>EMBO J.</i> 17, 754-64. King, C.C. et al. (2000) <i>J. Biol. Chem.</i> 275, 41201-9. Manser, E. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 1129-43. Gatti, A. et al. (1999) <i>J. Biol. Chem.</i> 274, 8022-8. Lei, M. et al. (2000) <i>Cell</i> 102, 387-97. Chong, C. et al. (2001) <i>J. Biol. Chem.</i> 276, 17347-53. Zhao, Z. et al. (2000) <i>Mol. Cell. Biol.</i> 20, 3906-17. Abo, A. et al. (1998) <i>EMBO J.</i> 17, 6527-40. Qu, J. et al. (2001) <i>Mol. Cell. Biol.</i> 21, 3523-33. Wen, Y.Y. et al. (2014) <i>Expert Opin Ther Targets</i> 18, 807-15. Molli, P.R. et al. (2009) <i>Oncogene</i> 28, 2545-55. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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