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Phospho-PAK1 (Thr423)/PAK2 (Thr402) Antibody



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

Applications: W	Reactivity: H M GP	Sensitivity: Endogenous	MW (kDa): 61 to 67 (PAK2), 68 to 74 (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 s 20°C. Do not aliquot	odium HEPES (pH 7.5), the antibody.	150 mM NaCl, 100 μ <u>ο</u>	g/ml BSA and 50% glyc	erol. Store at –
Specificity/Sen	sitivity	phosphorylated at T	23)/PAK2 (Thr402) Anti hr423, Thr402 and Thr 4, PAK5 or PAK6. The a 80).	421, respectively. The	antibody does not cro	ss-react with
Species predict based on 100% homology		Rat				
Source / Purific	cation		s are produced by imm sidues surrounding Th chromatography.			
Background		processes, including phagocyte NADPH of that induce PAK acti- the amino terminus Phosphorylation of I sites have been ider Because the autoph been hypothesized to conformation (6). Re in the kinase inhibito PAK2 regulates bind similarity with PAK1 site analogous to Th	nase (PAK) family of se cytoskeletal reorganiz xidase, and growth fac vity have been reporte of PAK causes autopho PAK1 at Thr423 by PDK tified, including Ser19 osphorylation sites are hat modification in thi search indicates that p ory domain) affects kin ing with the adaptor p 3 in the amino-termina r423 of PAK1, may play nbers are widely expre	ation, MAPK signaling tor-induced neurite of d. Binding of Rac/Cdc sphorylation and cor induces activation of 9 and Ser204 of PAK1, located in the amino s region prevents the shosphorylation at Ser ase activity (7). Phosp rotein Nck (8). PAK4, F al regulatory region (9 7 a pivotal role in regu	g, apoptotic signaling, outgrowth (1,2). Severa 42 to the CRIB (or PBE formational changes PAK1 (3). Several auto and Ser192 and Ser1 -terminal inhibitory do kinase from reverting r144 of PAK1 or Ser13 horylation at Ser21 of PAK5/7, and PAK6 have b). Phosphorylation at lating the activity and	control of I mechanisms) domain near in PAK (1). phosphorylation 07 of PAK2 (4,5). omain, it has to an inactive 0 of PAK3 (located PAK1 or Ser20 of I lower sequence Ser474 of PAK4, a function of PAK4
Background Re	eferences	2. Daniels, R.H. et al. 3. King, C.C. et al. (20 4. Manser, E. et al. (19 5. Gatti, A. et al. (199 6. Lei, M. et al. (2000 7. Chong, C. et al. (200 9. Abo, A. et al. (1998 10. Qu, J. et al. (2001 11. Wen, Y.Y. et al. (20	okoch, G.M. (1998) <i>Int.</i> (1998) <i>EMBO J.</i> 17, 754 (1998) <i>EMBO J.</i> 17, 754 (1997) <i>Mol. Cell. Biol.</i> 17, (19) <i>J. Biol. Chem.</i> 274, 8 (10) <i>Cell</i> 102, 387-97. (201) <i>J. Biol. Chem.</i> 276, (201) <i>J. Biol. Chem.</i> 276, (201) <i>J. Biol. Chem.</i> 276, (201) <i>Mol. Cell. Biol.</i> 20, 3 (201) <i>Mol. Cell. Biol.</i> 21, 35 (2014) <i>Expert Opin Ther</i> (2009) <i>Oncogene</i> 28, 25	4-64. 41201-9. 1129-43. 022-8. 17347-53. 906-17. 23-33. <i>Targets</i> 18, 807-15.	30, 857-62.	
Species Reactiv	vity	Species reactivity is	determined by testing	in at least one approv	ed application (e.g., w	estern blot).
Western Blot B	uffer		stern blots, incubate m 0 at 4°C with gentle sh		d primary antibody in t	5% w/v BSA, 1X

Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse GP: Guinea Pig
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