Phospho-Pyk2 (Tyr402) Antibody





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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 116	Source/Isotype: Rabbit	UniProt ID: #Q14289	Entrez-Gene Id: 2185	
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	Phospho-Pyk2 (Tyr402) Antibody detects endogenous levels of Pyk2 only when phosphorylated at tyrosine 402. This antibody may cross-react with other phospho-tyrosine containing proteins.					
Species predic based on 100% homology		Rat					
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr402 of human Pyk2. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		Protein-tyrosine kinase 2 (Pyk2), also called CAKβ, RAFTK, and CADTK, is a nonreceptor tyrosine kinase structurally related to focal adhesion kinase (FAK) (1-4). Pyk2 is predominantly expressed in cells derived from hematopoietic lineages and in the central nervous system. Pyk2 is one of the signaling mediators for the G protein-coupled receptors and MAP kinase signaling pathway. It plays an important role in cell spreading and migration (5-7).					
		Pyk2 is tyrosine phosphorylated and activated upon ligation of TCR (8,9). Phosphorylated Tyr402 of Pyk2 is required for the phosphorylation of other tyrosines on Pyk2 and provides a binding site for Fyn SH2 in the T-cell activation (10).					
Background R	eferences	 Avraham, S. et al. (1995) <i>J. Biol. Chem.</i> 270, 27742-27751. Lev, S. et al. (1995) <i>Nature</i> 376, 737-745. Sasaki, H. et al. (1995) <i>J. Biol. Chem.</i> 270, 21206-21219. Yu, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 29993-29998. Duong, L.T. et al. (2001) <i>J Biol Chem</i> 276, 7484-92. Watson, J.M. et al. (2001) <i>J Biol Chem</i> 276, 3536-42. Tang, H. et al. (2002) <i>J Biol Chem</i> 277, 5441-7. Berg, N.N. and Ostergaard, H.L. (1997) <i>J Immunol</i> 159, 1753-7. Ganju, R.K. et al. (1997) <i>J Exp Med</i> 185, 1055-63. Katagiri, T. et al. (2000) <i>J Biol Chem</i> 275, 19645-52. 					
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human M: Mouse					
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