Phospho-Jak1 (Tyr1034/1035) Antibody



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #P23458	Entrez-Gene Id 3716
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		Phospho-Jak1 (Tyr1034/1035) Antibody detects endogenous levels of Jak1 only when phosphorylated at tyrosines 1034/1035. Human Jak1 residues Tyr1034 and Tyr1035 historically have been referenced as Tyr1022 and Tyr1023. This antibody may cross-react with phospho-Jak2.				
Species predicted to react based on 100% sequence homology		Rat, Bovine				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1034/1035 of human Jak1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Members of the Janus family of tyrosine kinases (Jak1, Jak2, Jak3, and Tyk2) are activated by ligands binding to a number of associated cytokine receptors (1). Upon cytokine receptor activation, Jak proteins become autophosphorylated and phosphorylate their associated receptors to provide multiple binding sites for signaling proteins. These associated signaling proteins, such as Stats (2), Shc (3), insulin receptor substrates (4), and focal adhesion kinase (FAK) (5), typically contain SH2 or other phospho-tyrosine-binding domains. The tyrosine residues 1022/1023 of Jak1 in the putative activation loop are the homologous tyrosine residues 1054/1055 in Tyk2, which are important in the regulation of Tyk2 kinase activity (6).				
Background References		(This product is sold under license from Chemicon, Inc., U.S. Patent No. 5,658,791.) 1. Leonard, W.J. and O'Shea, J.J. (1998) <i>Annu Rev Immunol</i> 16, 293-322. 2. Darnell, J.E. (1997) <i>Science</i> 277, 1630-5. 3. VanderKuur, J. et al. (1995) <i>J Biol Chem</i> 270, 7587-93. 4. Argetsinger, L.S. et al. (1995) <i>J Biol Chem</i> 270, 14685-92. 5. Zhu, T. et al. (1998) <i>J Biol Chem</i> 273, 10682-9. 6. Gauzzi, M.C. et al. (1996) <i>J. Biol. Chem.</i> 271, 20494-20500.				
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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

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