

Jak2 (E4Y4D) Mouse mAb



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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Mouse IgG1	UniProt ID: #O60674	Entrez-Gene Id: 3717
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Jak2 (E4Y4D) Mouse mAb recognizes endogenous levels of total Jak2 protein. This antibody does not cross-react with human Jak1, Jak3, or Tyk2 proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Jak2 protein.				
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.				
Background References		 Leonard, W.J. and O'Shea, J.J. (1998) Annu Rev Immunol 16, 293-322. Darnell, J.E. (1997) Science 277, 1630-5. VanderKuur, J. et al. (1995) J Biol Chem 270, 7587-93. Argetsinger, L.S. et al. (1995) J Biol Chem 270, 14685-92. Zhu, T. et al. (1998) J Biol Chem 273, 10682-9. 				
Species Reactiv	vity	Species reactivity is de	termined 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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