

Phospho-Jak1 (Tyr1034/1035)/Jak2 (Tyr1007/1008) (E9Y7V) Mouse mAb



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Product Usage Information	Application Western Blotting Immunoprecipitation					
6.		• •		Dilution 1:1000 1:100		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity	Phospho-Jak1 (Tyr1034/1035)/Jak2 (Tyr1007/1008) (E9Y7V) Mouse mAb recognizes endogenous levels of Jak2 protein only when phosphorylated at Tyr1007 and Tyr1008 and endogenous levels of Jak1 when phosphorylated at Tyr1034 and Tyr1035. This antibody may cross-react with phospho-Jak3 and phospho-Tyk2.					
Species predicted to react based on 100% sequence homology	Rat, Monkey, Bovine,	Pig				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1007/Tyr1008 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	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.					
Species Reactivity	Species reactivity is de	etermined by testing	g in at least one approve	d 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 I	P: Immunoprecipita	ition			

Cross-Reactivity Key

H: Human M: Mouse

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