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#3776

Phospho-Jak2 (Tyr1007/1008) (C80C3) Rabbit mAb

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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit IgG	UniProt ID: #O60674	Entrez-Gene Id: 3717
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Product Usage Information	Application Western Blotting	Dilution 1:1000
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	Phospho-Jak2 (Tyr1007/1008) (C80C3) Rabbit mAb detects endogenous levels of Jak2 when phosphorylated at Tyr1007/1008. This antibody can also detect single phosphorylation at either 1007 or 1008. This antibody may cross-react with phospho-Jak1 and phospho-Tyk2.	
Species predicted to react based on 100% sequence homology	Monkey, Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to a region surrounding Tyr1007/1008 of human Jak2.	
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	<ol style="list-style-type: none"> 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 determined by testing in at least one approved 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
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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