## 4406

## Phospho-Jak2 (Tyr1007) (D15E2) Rabbit



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

Applications: W	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 125	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O60674	Entrez-Gene Id: 3717
Product Usage Information	•	<b>Application</b> Western Blotting			<b>Dilution</b> 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) (D15E2) Rabbit mAb detects endogenous levels of Jak2 when phosphorylated at Tyr1007. This antibody can also detect double phosphorylation at Tyr1007 and Tyr1008. Cross-reactivity may be observed with phosphorylated Jak3 and Tyk2.				
Species predicted to react based on 100% sequence homology		Rat, Monkey, Bovine				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1007 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> <li>Leonard, W.J. and O'Shea, J.J. (1998) Annu Rev Immunol 16, 293-322.</li> <li>Darnell, J.E. (1997) Science 277, 1630-5.</li> <li>VanderKuur, J. et al. (1995) J Biol Chem 270, 7587-93.</li> <li>Argetsinger, L.S. et al. (1995) J Biol Chem 270, 14685-92.</li> <li>Zhu, T. et al. (1998) J Biol Chem 273, 10682-9.</li> </ol>				
Species Reacti	vity	Species reactivity is d	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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