

#3332  
Store at -20C

# Jak1 Antibody

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

<b>Applications:</b> W, W-S	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P23458	<b>Entrez-Gene Id:</b> 3716
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Simple Western™	<b>Dilution</b> 1:1000 1:10 - 1:50
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity/Sensitivity</b>	Jak1 Antibody detects endogenous levels of total Jak1 protein.	
<b>Species predicted to react based on 100% sequence homology</b>	Rat, Bovine	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr1022/1023 of human Jak1. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	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.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Leonard, W.J. and O'Shea, J.J. (1998) <i>Annu Rev Immunol</i> 16, 293-322.</li> <li>2. Darnell, J.E. (1997) <i>Science</i> 277, 1630-5.</li> <li>3. VanderKuur, J. et al. (1995) <i>J Biol Chem</i> 270, 7587-93.</li> <li>4. Argetsinger, L.S. et al. (1995) <i>J Biol Chem</i> 270, 14685-92.</li> <li>5. Zhu, T. et al. (1998) <i>J Biol Chem</i> 273, 10682-9.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> 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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>W-S:</b> Simple Western™
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse
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