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Jak2 (D2E12) XP[®] Rabbit mAb (Sepharose[®] Bead Conjugate)

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

Applications: IP	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 Immunoprecipitation	Dilution 1:20
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity/Sensitivity	Jak2 (D2E12) XP [®] Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of total Jak2 protein. No cross-reactivity was observed with other family members.	
Species predicted to react based on 100% sequence homology	Hamster, Monkey, Chicken, Xenopus, Bovine, Dog, Pig, Horse	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro841 of Jak2.	
Description	This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. Jak2 (D2E12) XP [®] Rabbit mAb (Sepharose [®] Bead Conjugate) is useful for the immunoprecipitation of Jak2 proteins.	
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).

Applications Key **IP:** Immunoprecipitation

Cross-Reactivity Key **H:** Human **M:** Mouse **R:** Rat

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