

Store at -20°C
#4040

Jak2 (D2E12) XP® Rabbit mAb (Biotinylated)



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	125	Rabbit IgG	#O60674	3717

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	Jak2 (D2E12) XP® Rabbit mAb (Biotinylated) 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 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same cross-reactivity as the unconjugated antibody (Jak2 (D2E12) XP® Rabbit mAb #3230).	

MW (kDa) 125

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"> Leonard, W.J. and O'Shea, J.J. (1998) <i>Annu Rev Immunol</i> 16, 293-322. Darnell, J.E. (1997) <i>Science</i> 277, 1630-5. VanderKuur, J. et al. (1995) <i>J Biol Chem</i> 270, 7587-93. Argetsinger, L.S. et al. (1995) <i>J Biol Chem</i> 270, 14685-92. 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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