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|--|---|---|
| #3230 Store at -20C | Jak2 (D2E12) XP [®] Rabbit mAb |  |
| | | Orders: 877-616-CELL (2355) orders@cellsignal.com |
| | | Support: 877-678-TECH (8324) |
| | | Web: info@cellsignal.com cellsignal.com |
| 3 Trask Lane Danvers Massachusetts 01923 USA | | |

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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W, IP, IHC-P | H M R | Endogenous | 125 | Rabbit IgG | #O60674 | 3717 |

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:100
1:800 - 1:3200

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.

For a carrier free (BSA and azide free) version of this product see product #34315.

Specificity/Sensitivity

Jak2 (D2E12) XP[®] Rabbit mAb 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.

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

- Leonard, W.J. and O'Shea, J.J. (1998) *Annu Rev Immunol* 16, 293-322.
- Darnell, J.E. (1997) *Science* 277, 1630-5.
- VanderKuur, J. et al. (1995) *J Biol Chem* 270, 7587-93.
- Argetsinger, L.S. et al. (1995) *J Biol Chem* 270, 14685-92.
- Zhu, T. et al. (1998) *J Biol Chem* 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

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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