

Jak2 Blocking Peptide



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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: This peptide is used to specifically block Jak2 (D2E12) Rabbit mAb #3230 reactivity.

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.

Quality Control: The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry. The peptide blocks Jak2 (D2E12) Rabbit mAb #3230 by peptide dot blot.

Directions for Use: Use as a blocking reagent to evaluate the specificity of antibody reactivity in peptide dot blot protocols. Recommended antibody dilutions can be found on the relevant product data sheet.

Background References:

- (1) Leonard, W.J. and O'Shea, J.J. (1998) *Annu Rev Immunol* 16, 293-322.
- (2) Darnell, J.E. (1997) *Science* 277, 1630-5.
- (3) VanderKuur, J. et al. (1995) *J Biol Chem* 270, 7587-93.
- (4) Argetsinger, L.S. et al. (1995) *J Biol Chem* 270, 14685-92.
- (5) Zhu, T. et al. (1998) *J Biol Chem* 273, 10682-9.

Entrez-Gene ID #3717
Swiss-Prot Acc. #O60674

Storage: Supplied in 20 mM potassium phosphate (pH 7.0), 50 mM NaCl, 0.1 mM EDTA, 1 mg/ml BSA and 5% glycerol. 1% DMSO Store at -20°C.

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com/companion for a complete listing of recommended companion products.