

# Jak1 Blocking Peptide

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rev. 05/29/17

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

**Description:** This peptide is used to block Jak1 (6G4) Rabbit mAb #3344 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 Jak1 (6G4) Rabbit mAb #3344 by peptide dot blot.

**Directions for Use:** Use as a blocking reagent to evaluate the specificity of antibody reactivity in peptide dot blot protocols.

#### 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.

**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.