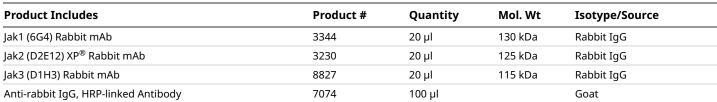
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The Jak Isoform Antibody Sampler Kit provides an economical means to examine several Jak isoforms. The kit contains enough primary and secondary antibodies to perform two Western blot experiments per primary antibody.
Supplied in 10 mM sodium HEPES (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.
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.
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.
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