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AP55701PU-N Polyclonal Antibody to Tyrosine-protein kinase JAK2 pTyr570 - Aff - Purified

Alternate names: JAK-2, Janus kinase 2

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Plays a role in leptin signaling and control of body weight.

Uniprot ID: O60674

NCBI: 9606

GeneID: 3717

Host: Rabbit

Immunogen: Peptide sequence around phosphorylation site of tyrosine 570(G-D-Y(p)-G-Q) derived from Human JAK2 (KLH-conjugated)

Format:
State: Liquid Ig fraction
Purification: Affinity chromatography using epitope-specific peptide
Buffer System: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

Applications: Western blot: 1:500~1:1000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 125 kDa

Specificity: The antibody detects endogenous levels of JAK2 only when phosphorylated at tyrosine 750.

Species Reactivity: **Tested:** Human, Mouse, Rat

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Saltzman A, Stone M, Franks C, Searfoss G, Munro R, Jaye M, et al. Cloning and characterization of human Jak-2 kinase: high mRNA expression in immune cells and muscle tissue. Biochem Biophys Res Commun. 1998 May 29;246(3):627-33. PubMed PMID: 9618263.
2. Dalal I, Arpaia E, Dadi H, Kulkarni S, Squire J, Roifman CM. Cloning and characterization of the human homolog of mouse Jak2. Blood. 1998 Feb 1;91(3):844-51. PubMed PMID: 9446644.
3. Peeters P, Raynaud SD, Cools J, Wlodarska I, Grosgeorge J, Philip P, et al. Fusion of TEL, the ETS-variant gene 6 (ETV6), to the receptor-associated kinase JAK2 as a result of t(9;12) in a lymphoid and t(9;15;12) in a myeloid leukemia. Blood. 1997 Oct 1;90(7):2535-40. PubMed PMID: 9326218.

Pictures:

Western blot analysis of extracts from JK cells (Lane 2), using JAK2 (Phospho-Tyr570) Antibody AP55701PU-N. The lane on the left is treated with antigen-specific peptide.