

Product datasheet for **AP26426AF-L**

JAK2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1/64,000 for detection of the JAK2 peptide coated on ELISA plate. Western blot: 1/2,000 to detect 130kDa JAK2 in TF-1 cell extract.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the human JAK2 peptide, conjugated with KLH
Specificity:	This antibody reacts with the 130kDa JAK2 on human and other species with consensus sequence.
Formulation:	0.01M PBS, pH 7.4 State: Azide Free State: Lyophilized Ig fraction
Reconstitution Method:	Restore with double distilled water to adjust the final concentration to 1.00 mg/ml.
Purification:	Protein G affinity
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 month or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Janus kinase 2
Database Link:	Entrez Gene 3717 Human O60674



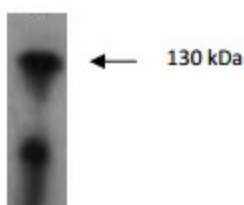
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Background:

Janus kinase 2 (JAK2) is a non-receptor tyrosine kinase that plays an important role in signal transduction through its association with receptors on the cell membrane. When these receptors are activated by extracellular signals, the receptors activate JAK2 which in turn phosphorylates the tyrosine residues on the receptors. The phosphorylation enables the binding of downstream signaling molecules, primarily, signal transducer and activator of transcription (STAT) proteins. STATs possess a SHdomain that specifically binds to phosphorylated tyrosine residue on the receptor. STAT in cytoplasm is activated after binding and migrates to nucleus to activate gene transcription. JAK2 mediates the transduction of a variety of extracellular signals in this pattern. The receptors that are associated with JAK2 include type II cytokine receptors, GM-CSF receptor family, gp130 receptor family, growth hormone receptor, prolactin receptor and EPO receptor.

Synonyms:

Janus kinase 2, JAK-2

Product images:


Western blot analysis of extracts from TF-1 cells using anti-JAK2 polyclonal antibody.