

Product datasheet for **AP20496PU-M**

JAK2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunofluorescence: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of JAK2 protein. (region surrounding Arg564)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 125 kDa
Gene Name:	Janus kinase 2
Database Link:	<u>Entrez Gene 16452 Mouse</u> <u>Entrez Gene 24514 Rat</u> <u>Entrez Gene 3717 Human</u> <u>O60674</u>



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Background:

JAK2 (Janus Activating Kinase 2) is a tyrosine kinase of the non-receptor type, that associates with the intracellular domains of cytokine receptors; JAK2 is the predominant JAK kinase activated in response to several growth factors and cytokines such as IL-3, GM-CSF and erythropoietin; it has been found to be constitutively associated with the prolactin receptor and is required for responses to gamma interferon. Ligand binding to a variety of cell surface receptors (e.g., cytokine, growth factor, GPCRs) leads to an association of those receptors with JAK proteins, which are then activated via phosphorylation on tyrosines 1007 and 1008 in the kinase activation loop. Activated JAK proteins phosphorylate and activate STAT (signal transducers and activators of transcription) proteins, which then dimerize and translocate to the nucleus. Once in the nucleus, STAT proteins bind to DNA and modify the transcription of various genes.

Synonyms:

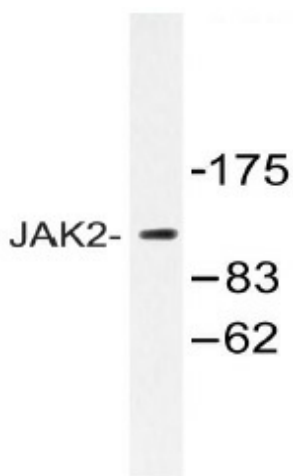
Janus kinase 2, JAK-2

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-STAT signaling pathway

Product images:


Western blot (WB) analysis of JAK2 antibody (Cat.-No.: [AP20496PU-N]) in 293 etoposide 25uM 24h.