

## Product datasheet for **AP06189PU-S**

### JAK2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 971-1020 of Human JAK2.
Specificity:	This antibody detects endogenous levels of JAK2 protein. (region surrounding Leu1001)
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 using epitope-specific immunogen and the purity is > 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:	<a href="#">Entrez Gene 3717 Human O60674</a>



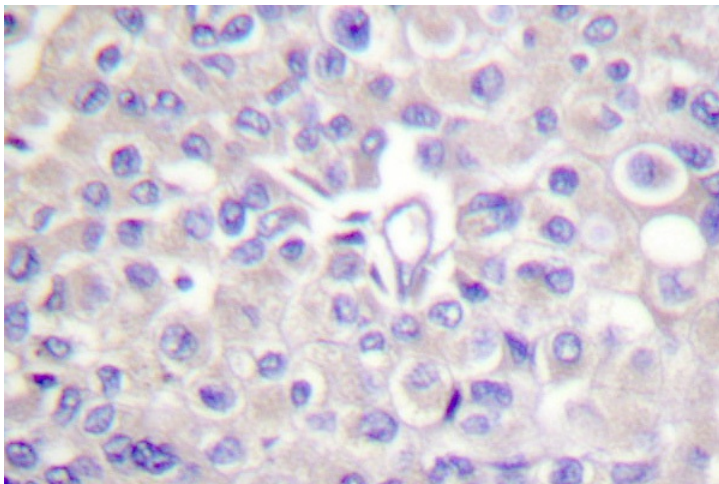
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**Background:**

Jak2 (Janus Kinase 2) belongs to the emerging family of non-receptor janus tyrosine kinases, which regulate a spectrum of cellular functions downstream of activated cytokine receptors in the lympho-hematopoietic system. Immunological stimuli, such as interferons and cytokines, induce recruitment of STAT transcription factors to cytokine receptor-associated Jak2. Jak2 then phosphorylates proximal STAT factors, which subsequently dimerize, translocate to the nucleus and bind to cis elements upstream of target gene promoters to regulate transcription. The canonical Jak-STAT pathway is integral to maintaining a normal immune system by stimulating proliferation, differentiation, survival, and host resistance to pathogens. Altering Jak-STAT signaling to reduce cytokine induced pro-inflammatory responses represents an attractive target for anti-inflammatory therapies.

**Synonyms:**

Janus kinase 2, JAK-2

**Product images:**

Immunohistochemistry (IHC) analyzes of JAK2 antibody in paraffin-embedded human breast carcinoma tissue.