

# Anti-JAK2 Antibody

## RT1343



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IP, IF, IHC-P
<b>Molecular Wt:</b>	128kDa

**Description:** 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

**Immunogen:** A peptide mapping at the C-terminus of JAK2 of mouse origin

**Positive control:** human kidney tissue

**Subcellular location:** Cytoplasm, Nucleus, Endomembrane system

**Database links:** SwissProt: O60674 Human

**Recommended Dilutions:**

<b>WB</b>	1:100-1:1,000
<b>IP</b>	1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)
<b>IF</b>	1:50-1:500
<b>IHC-P</b>	1:50-1:500

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4°C, "DO NOT FREEZE".

**Purity:** Protein A affinity purified.

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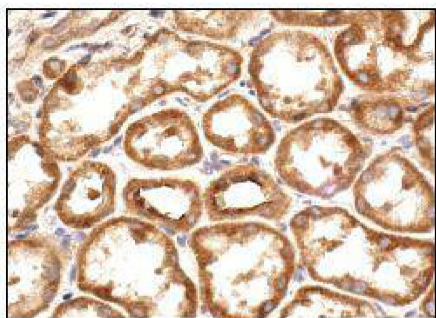
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## Images



**Fig1:** Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in tubules.

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**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

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## Background References

1. Prchal-Murphy, M., et al. 2012. TYK2 kinase activity is required for functional type I interferon responses in vivo. PLoS ONE 7: e39141.
2. Su, K.H., et al. 2011.  $\beta$  common receptor integrates the erythropoietin signaling in activation of endothelial nitric oxide synthase. J. Cell. Physiol. 226: 3330-3339.

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