

Product datasheet for AP20252PU-N

OriGene Technologies, Inc.

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JAK3 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Immunoflourescence: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of JAK3 protein.

Formulation: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction

Concentration: 1.0 mg/ml

Purification: Affinity-chromatography using epitope-specific immunogen; 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 3

Database Link: Entrez Gene 16453 MouseEntrez Gene 25326 RatEntrez Gene 3718 Human

P52333





Background:

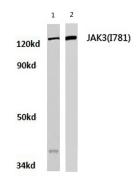
Jak3 (Janus Kinase 3) belongs to the family of non-receptor Janus tyrosine kinases, which regulate a spectrum of cellular functions downstream of activated cytokine receptors in the lympho-hematopoietic system. Immunological stimuli, such as interferons and cytokines, induce recruitment of Stat transcription factors to cytokine receptor-associated JAK3. JAK3 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, 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 3, JAK-3, L-JAK

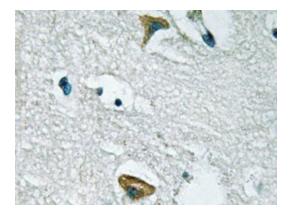
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Chemokine signaling pathway, Jak-STAT signaling pathway, Primary immunodeficiency

Product images:



Lane 1: Hela whole cell lysate Lane 2: Raw264.7 whole cell lysate JAK3 (I781) pAb at 1:500 dilution Western blot (WB) analysis of JAK3 antibody (Cat.-No.: AP20252PU-N) in extracts from hela and raw264.7 cells.



Immunohistochemistry analyzes of JAK3 antibody (AP20252PU-N) in paraffin-embedded human brain tissue.