

**JAK3 (phospho Tyr785) Polyclonal Antibody**

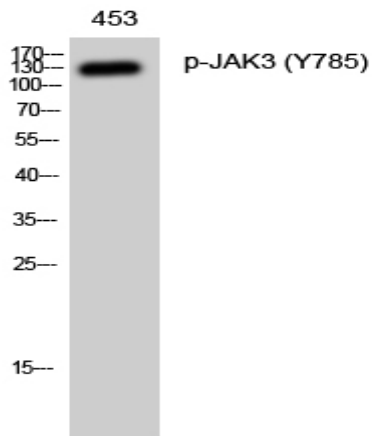
<b>Catalog No :</b>	YP0756
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	JAK3
<b>Fields :</b>	>>Chemokine signaling pathway;>>PI3K-Akt signaling pathway;>>Necroptosis;>>Signaling pathways regulating pluripotency of stem cells;>>JAK-STAT signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>Hepatitis B;>>Measles;>>Human T-cell leukemia virus 1 infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral carcinogenesis;>>Non-small cell lung cancer;>>Primary immunodeficiency
<b>Gene Name :</b>	JAK3
<b>Protein Name :</b>	Tyrosine-protein kinase JAK3
<b>Human Gene Id :</b>	3718
<b>Human Swiss Prot No :</b>	P52333
<b>Mouse Gene Id :</b>	16453
<b>Mouse Swiss Prot No :</b>	Q62137
<b>Rat Swiss Prot No :</b>	Q63272
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human JAK3 around the phosphorylation site of Tyr785. AA range:751-800
<b>Specificity :</b>	Phospho-JAK3 (Y785) Polyclonal Antibody detects endogenous levels of JAK3 protein only when phosphorylated at Y785.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

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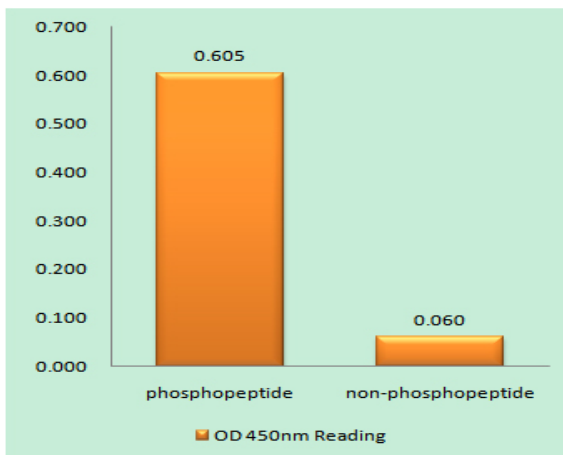
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	125kD
<b>Cell Pathway :</b>	Chemokine;Jak_STAT;Primary immunodeficiency;
<b>Background :</b>	The protein encoded by this gene is a member of the Janus kinase (JAK) family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. It is predominantly expressed in immune cells and transduces a signal in response to its activation via tyrosine phosphorylation by interleukin receptors. Mutations in this gene are associated with autosomal SCID (severe combined immunodeficiency disease). [provided by RefSeq, Jul 2008],
<b>Function :</b>	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in JAK3 are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-negative (T(-)B(+)NK(-)SCID) [MIM:600802]. SCID refers to a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.,domain:Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role
<b>Subcellular Location :</b>	Endomembrane system ; Peripheral membrane protein . Cytoplasm .
<b>Expression :</b>	In NK cells and an NK-like cell line but not in resting T-cells or in other tissues. The S-form is more commonly seen in hematopoietic lines, whereas the B-form is detected in cells both of hematopoietic and epithelial origins.

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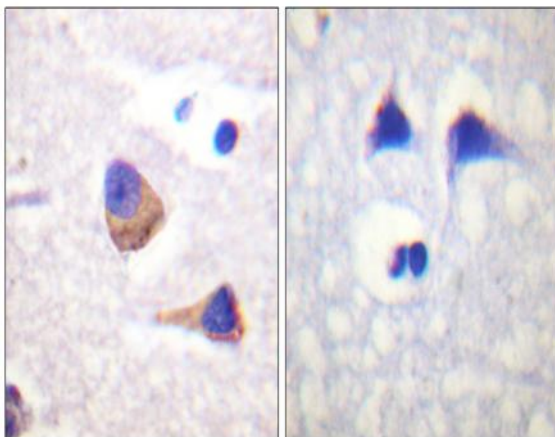
## Products Images



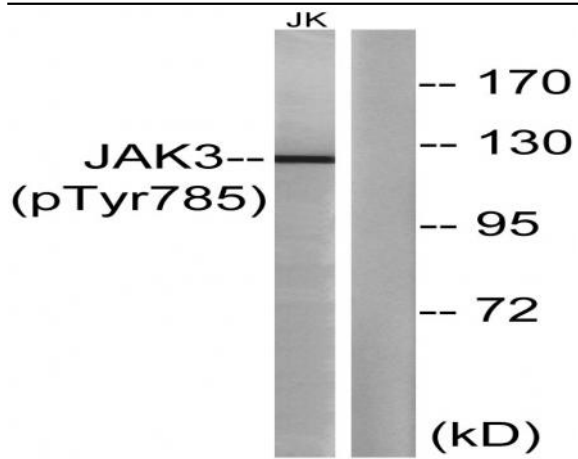
Western Blot analysis of 453 cells using Phospho-JAK3 (Y785) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using JAK3 (Phospho-Tyr785) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using JAK3 (Phospho-Tyr785) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells, using JAK3 (Phospho-Tyr785) Antibody. The lane on the right is blocked with the phospho peptide.