



# JAK3 (Phospho Tyr981) rabbit pAb

Cat No.:ES20172

For research use only

## Overview

<b>Product Name</b>	JAK3 (Phospho Tyr981) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	WB 1:500-2000;IHC-p 1:50-300
<b>Immunogen</b>	Synthesized peptide derived from human JAK3 (Phospho Tyr981)
<b>Specificity</b>	This antibody detects endogenous levels of Human,Mouse,Rat JAK3 (Phospho Tyr981)
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	JAK3 (Phospho Tyr981)
<b>Gene Name</b>	JAK3
<b>Cellular localization</b>	Endomembrane system ; Peripheral membrane protein . Cytoplasm .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	73kD
<b>Human Gene ID</b>	3718
<b>Human Swiss-Prot Number</b>	P52333
<b>Alternative Names</b>	Tyrosine-protein kinase JAK3 (EC 2.7.10.2;Janus kinase 3;JAK-3;Leukocyte janus kinase;L-JAK)
<b>Background</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 for domain 1.

**function:** Tyrosine kinase of the non-receptor type, involved in the interleukin-2 and interleukin-4 signaling pathway. Phosphorylates STAT6, IRS1, IRS2 and PI3K.

**online information:** JAK3 mutation db, PTM: Tyrosine phosphorylated in response to IL-2 and IL-4.

**similarity:** Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.

**similarity:** Contains 1 FERM domain.

**similarity:** Contains 1 protein kinase domain.

**similarity:** Contains 1 SH2 domain.

**subcellular location:** Wholly intracellular, possibly membrane associated.

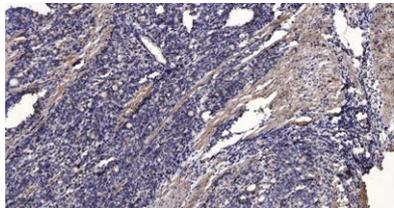
**subunit:** Interacts with STAM2 and MYO18A (By similarity). Interacts with SHB.

**tissue specificity:** 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- and M-forms are detected in cells both of hematopoietic and epithelial origins.





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Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).



+86-27-59760950

[ELKbio@ELKbiotech.com](mailto:ELKbio@ELKbiotech.com)

[www.elkbiotech.com](http://www.elkbiotech.com)

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C