



产品详情

JAK3 Rabbit Polyclonal Antibody

产品货号	产品名称	储存条件	保质期
IM54046	JAK3 Rabbit Polyclonal Antibody	-20℃	1 年

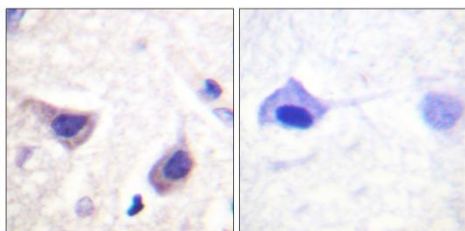
产品概述:

产品货号	IM54046
别名	JAK3;Tyrosine-protein kinase JAK3;Janus kinase 3;JAK-3;Leukocyte janus kinase;L-JAK
产品名称	JAK3 Rabbit Polyclonal Antibody
类别	抗体产品
基因名称	JAK3
蛋白名称	Tyrosine-protein kinase JAK3
推荐应用	WB, IHC-P, IF-P, IF-F, IF-ICC, ELISA
反应种属	Human, Mouse, Rat
浓度	1mg/ml
存储缓冲液	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Human Gene ID	3718
Human Swissprot No.	P52333
Mouse Gene ID	16453

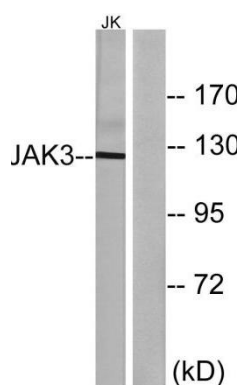
Mouse Swissprot No.	Q62137
Rat Swissprot No.	Q63272
免疫原	The antiserum was produced against synthesized peptide derived from human JAK3. AA range:751-800
特异性	JAK3 Polyclonal Antibody detects endogenous levels of JAK3 protein.
稀释度	WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/IF-ICC 1:200-1:1000, ELISA 1:20000. Not yet tested in other applications.
预测分子量	125kDa
运输及保存条件	-20℃/1 year
宿主	Rabbit
同种型	Rabbit, IgG
背景介绍	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].
组织表达	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.
细胞定位	Endomembrane system; Peripheral membrane protein. Cytoplasm.

信号通路	Chemokine;Jak_STAT;Primary immunodeficiency.
功能	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

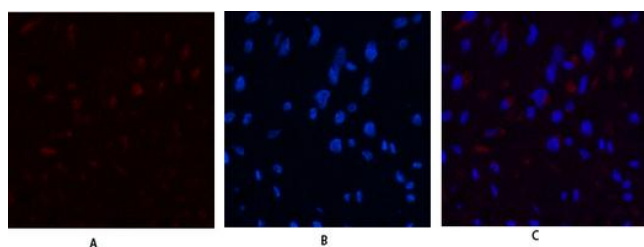
功能	both of hematopoietic and epithelial origins.
纯化	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope specific immunogen.
Clonality	Polyclonal



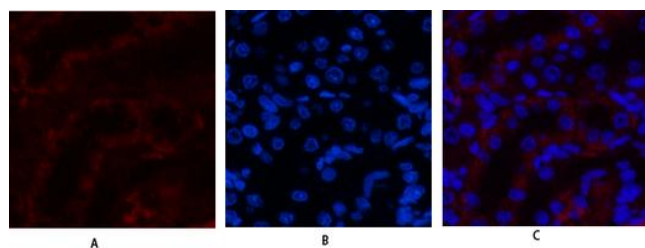
Immunohistochemistry analysis of paraffin-embedded human brain tissue, using JAK3 Antibody. The picture on the right is blocked with the synthesized peptide.



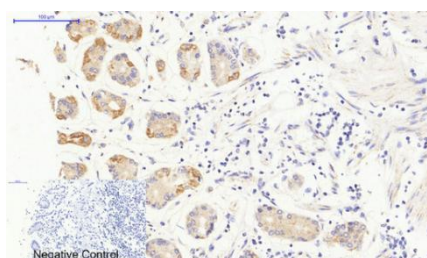
Western blot analysis of lysates from Jurkat cells, using JAK3 Antibody. The lane on the right is blocked with the synthesized peptide.



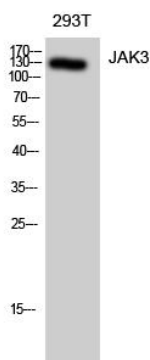
Immunofluorescence analysis of human-uterus tissue. 1, JAK3 Polyclonal Antibody (red) was diluted at 1:200 (4° , overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



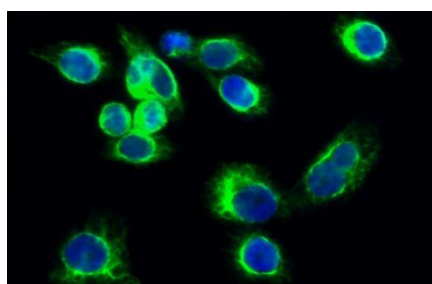
Immunofluorescence analysis of rat-kidney tissue. 1, JAK3 Polyclonal Antibody (red) was diluted at 1:200 (4° , overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Human-stomach tissue. 1, JAK3 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 °C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of 293T cells using JAK3 Polyclonal Antibody diluted at 1: 1000



Immunofluorescence analysis of HeLa cell. 1, JAK3 Polyclonal Antibody (green) was diluted at 1:200 (4 °C, overnight). 2, Goat Anti Rabbit Alexa Fluor 488 was diluted at 1:1000 (room temperature, 50min). 3 DAPI (blue) 10min.

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