



Rabbit Anti-JAK1 antibody

SL1439R

Product Name:	JAK1
Chinese Name:	蛋白质酪氨酸激酶JAK-1抗体
Alias:	JAK 1; JAK 1A; JAK 1B; JAK1; JAK1A; JAK1B; Janus kinase 1 (a protein tyrosine kinase); Janus kinase 1; JTK3; Tyrosine protein kinase JAK 1; Tyrosine protein kinase JAK1; JAK1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	133kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human JAK1:901-1135/1135
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Janus kinase 1 (JAK1) is a member of a new class of non-receptor protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The second phosphotransferase domain bears all the hallmarks of a protein kinase, although its structure differs significantly from that of the PTK and threonine/serine kinase family members. JAK1 is

a large, widely expressed membrane-associated phosphoprotein. It is involved in the interferon-alpha/beta and -gamma signal transduction pathways. The reciprocal interdependence between JAK1 and TYK2 activities in the interferon-alpha pathway, and between JAK1 and JAK2 in the interferon-gamma pathway, may reflect a requirement for these kinases in the correct assembly of interferon receptor complexes. These kinases couple cytokine ligand binding to tyrosine phosphorylation of various known signaling proteins and a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs.

Function:

Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.

Subunit:

Interacts with FER (By similarity). Interacts with IL31RA, IFNAR2, JAKMIP1 and SHB.

Subcellular Location:

Endomembrane system; Peripheral membrane protein. Note=Wholly intracellular, possibly membrane associated.

Tissue Specificity:

Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.

Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily. Contains 1 FERM domain.
Contains 2 protein kinase domains.
Contains 1 SH2 domain.

SWISS:

P23458

Gene ID:

3716

Database links:

[Entrez Gene: 395681](#)Chicken

[Entrez Gene: 3716](#)Human

[Entrez Gene: 16451](#)Mouse

[Entrez Gene: 397202](#)Pig

[Entrez Gene: 84598](#)Rat

[Omim: 147795](#)Human

[SwissProt: P23458](#)Human

[SwissProt: P52332](#)Mouse

[Unigene: 207538](#)Human

[Unigene: 289657](#)Mouse

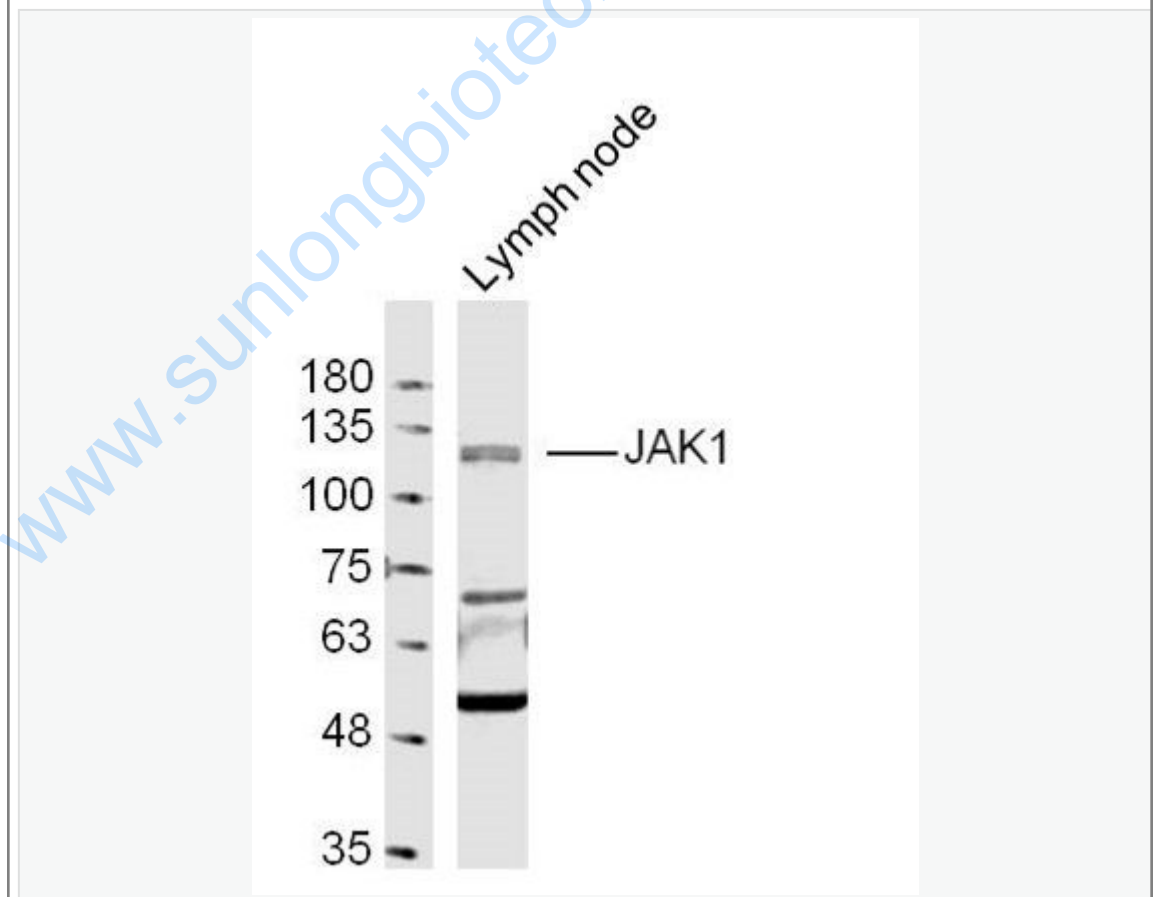
[Unigene: 90191](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Kinases and Phosphatases (Kinases and Phosphatases)

Picture:



Sample:

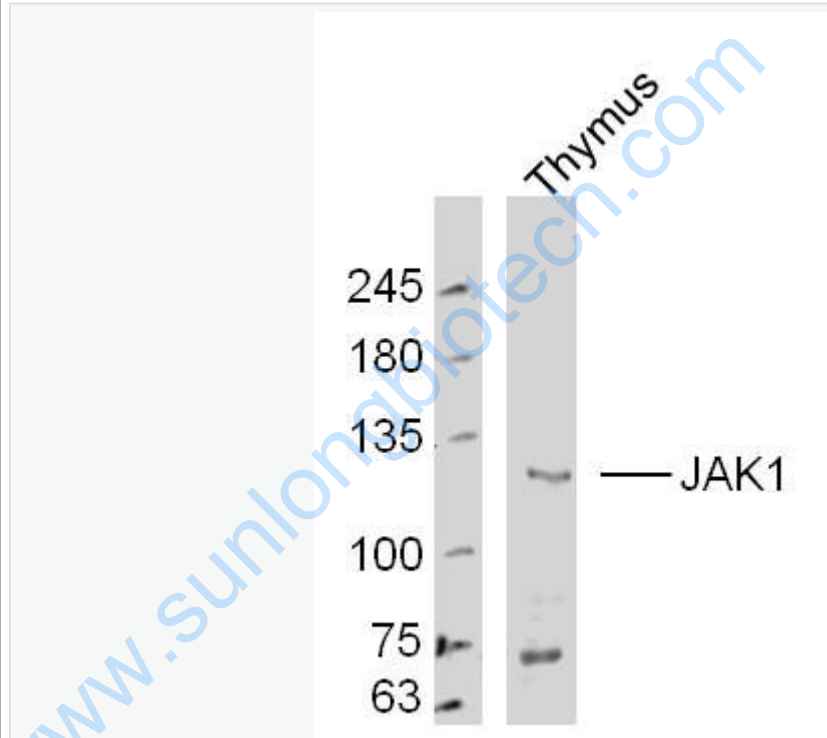
Lymph node(Mouse) Lysate at 40 ug

Primary: Anti-JAK1 (SL1439R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 133 kD

Observed band size: 133 kD



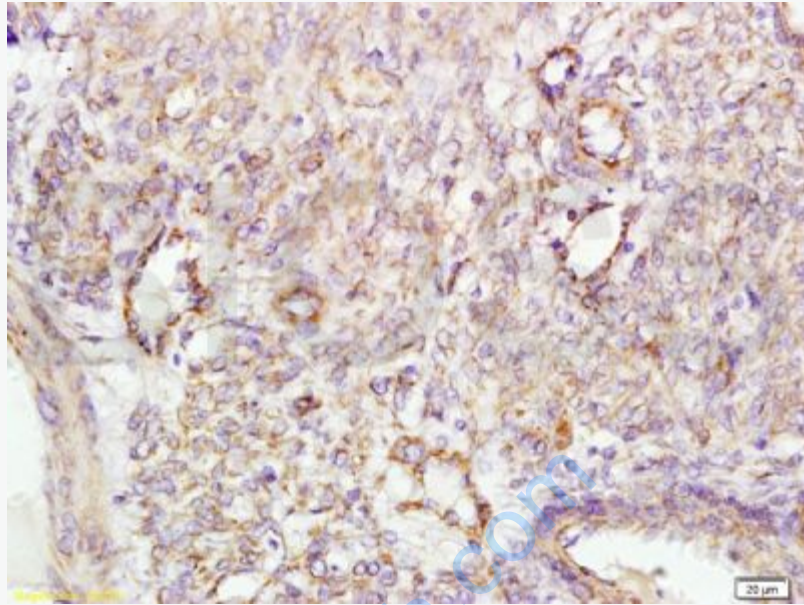
Sample: Thymus (Mouse) Lysate at 30 ug

Primary: Anti- JAK1 (SL1439R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 133 kD

Observed band size: 133 kD



Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-JAK1 Polyclonal Antibody, Unconjugated(SL1439R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining