



Jak1 mouse mAb

Catalog No	YP-Ab-14225
Isotype	IgG
Reactivity	Human;Rat
Applications	WB;IF;IP
Gene Name	jak1
Immunogen	Purified recombinant human Jak1 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of Jak1 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:200-1000 icc 1:200. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	JAK 1;JAK1;JAK1A;JAK1B;Janus kinase 1;JTK3;Tyrosine protein kinase JAK1; JAK 1A;JAK 1B;JAK-1;JAK1_HUMAN;Janus kinase 1 (a protein tyrosine kinase); Tyrosine protein kinase JAK 1;Tyrosine-protein kinase JAK1.
Observed Band	130kD
Calculated Molecular Weight	130kD
Cell Pathway	Endomembrane system; Peripheral membrane protein. 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.
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.;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.;domain:The FERM domain mediates interaction with JAKMIP1.;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.;sequence caution:Translation N-terminally extended.;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 IL31RA, JAKMIP1 and SHB.,tissue specif

Background

This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta and interferon-gamma signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016],

matters needing attention

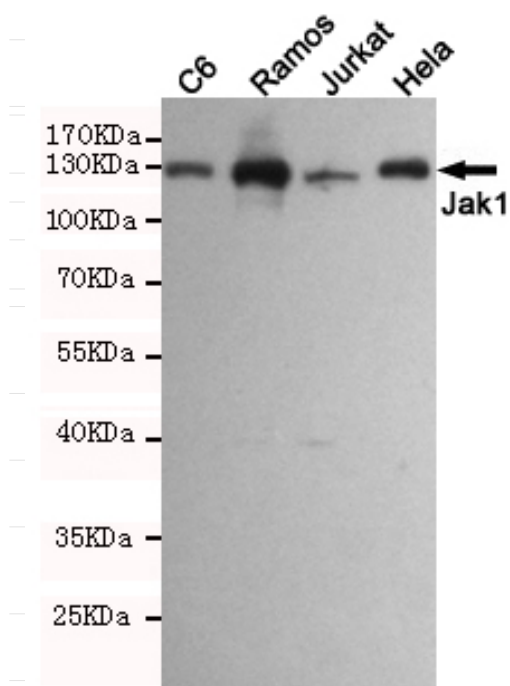
Avoid repeated freezing and thawing!

Usage suggestions

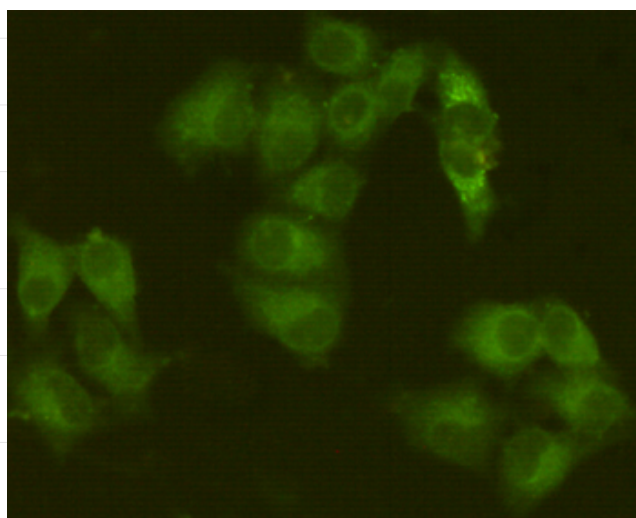
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



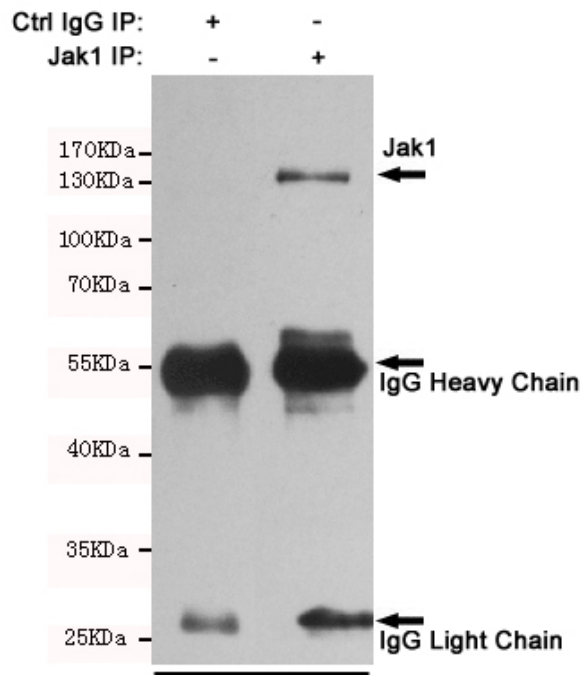
Products Images



Western blot analysis of extracts from C6, Ramos, Jurkat and HeLa cell lysates using Jak1 mouse mAb (1:1000 diluted). Predicted band size: 130KDa. Observed band size: 130KDa.



Immunocytochemistry staining of HeLa cells fixed with 4% Paraformaldehyde and using anti-Jak1 mouse mAb (dilution 1:200).



WB:200622-8B8 Anti-Jak1 Mouse mAb

Immunoprecipitation analysis of Hela cell lysates using Jak1 mouse mAb.