



# Jak1 mouse mAb

<b>Catalog No</b>	YP-Ab-14225
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat
<b>Applications</b>	WB;IF;IP
<b>Gene Name</b>	jak1
<b>Protein Name</b>	
<b>Immunogen</b>	Purified recombinant human Jak1 protein fragments expressed in E.coli.
<b>Specificity</b>	This antibody detects endogenous levels of Jak1 and does not cross-react with related proteins.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb 1:200-1000 icc 1:200. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	JAK 1; JAK 1A; JAK 1B; JAK-1; JAK1; JAK1_HUMAN; JAK1A; JAK1B; Janus kinase 1 (a protein tyrosine kinase); Janus kinase 1; JTK3; Tyrosine protein kinase JAK 1; Tyrosine protein kinase JAK1; Tyrosine-protein kinase JAK1.
<b>Observed Band</b>	130kD
<b>Cell Pathway</b>	Endomembrane system; Peripheral membrane protein. Wholly intracellular, possibly membrane associated.
<b>Tissue Specificity</b>	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.
<b>Function</b>	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],

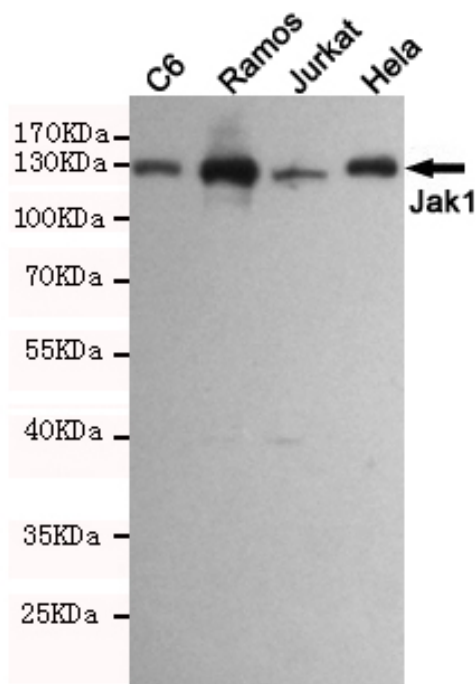
## matters needing attention

Avoid repeated freezing and thawing!

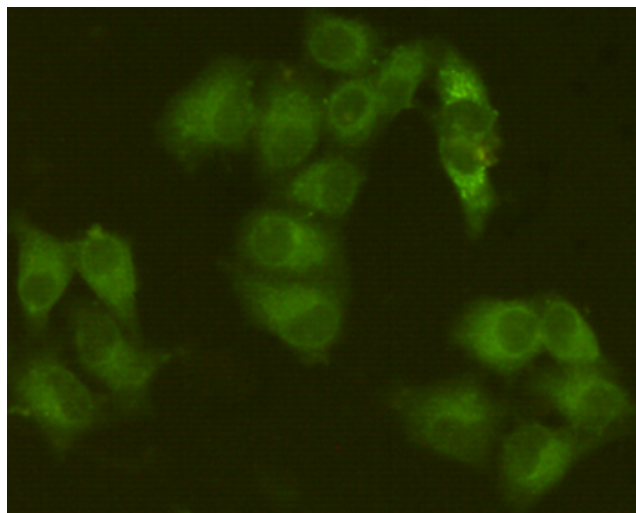
## Usage suggestions

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.

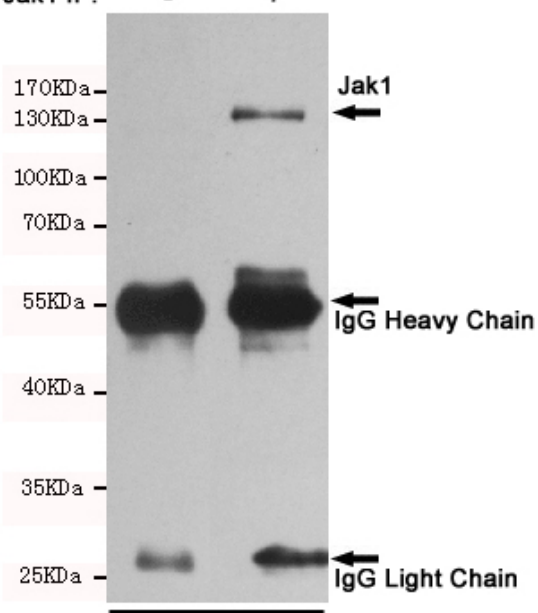


Immunocytochemistry staining of HeLa cells fixed with 4% Paraformaldehyde and using anti-Jak1 mouse mAb (dilution 1:200).



Ctrl IgG IP: + -  
Jak1 IP: - +

Immunoprecipitation analysis of Hela cell lysates using Jak1 mouse mAb.



Hela

WB:200622-8B8 Anti-Jak1 Mouse mAb