ARG57826
anti-JAK1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes JAK1
Tested Reactivity	Hu, Rat
Tested Application	ICC/IF, IP, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Target Name	JAK1
Species	Human
Immunogen	Purified recombinant fragment of Human JAK1.
Conjugation	Un-conjugated
Alternate Names	JTK3; Janus kinase 1; JAK-1; Tyrosine-protein kinase JAK1; JAK1A; JAK1B; EC 2.7.10.2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:200
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

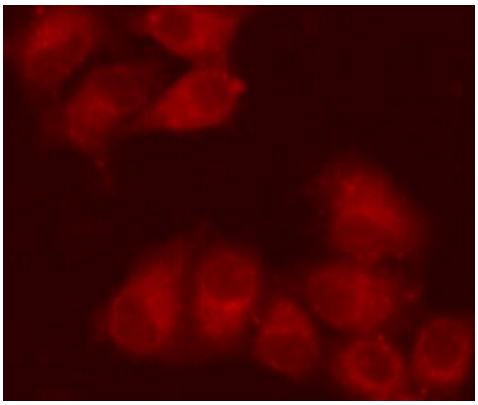
Properties

Form	Liquid
Purification	Purified by ammonium sulfate co-precipitation.
Buffer	PBS (pH 7.4), 0.03% Proclin300 and 50% Glycerol.
Preservative	0.03% Proclin300
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

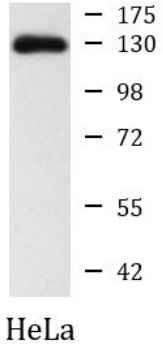
Gene Symbol	JAK1
Gene Full Name	Janus kinase 1
Background	Janus kinase 1 (JAK1), is a member of a new class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The second phosphotransferase domain bears 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. JAK1 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 of a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	133 kDa
PTM	Autophosphorylated (PubMed:7615558). Phosphorylated on tyrosine residues in response to interferon gamma signaling (PubMed:7615558). Dephosphorylation of Tyr-1034 and Tyr-1035 by PTPN2 negatively regulates cytokine-mediated signaling (PubMed:11909529). Ubiquitinated by RNF125; leading to its degradation by the proteasome. [UniProt]
Cellular Localization	Endomembrane system; Peripheral membrane protein. [UniProt]

Images



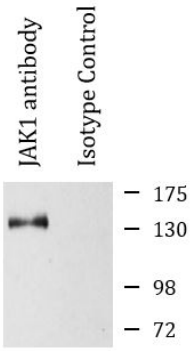
ARG57826 anti-JAK1 antibody ICC/IF image

Immunofluorescence: HeLa cells fixed with 4% Paraformaldehyde and stained with ARG57826 anti-JAK1 antibody at 1:200 dilution.



ARG57826 anti-JAK1 antibody WB image

Western blot: HeLa cell lysate stained with ARG57826 anti-JAK1 antibody at 1:1000 dilution.



ARG57826 anti-JAK1 antibody IP image

Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG57826 anti-JAK1 antibody.