Anti-JAK1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014413

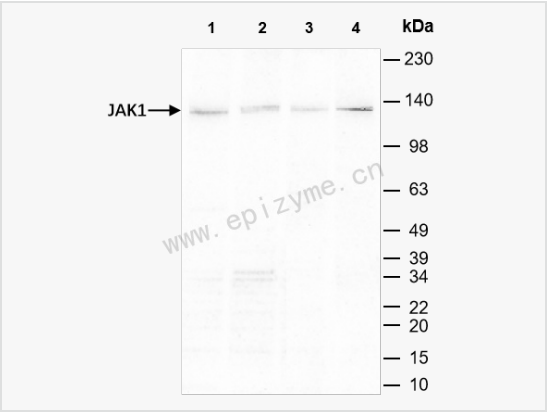
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	30G06P91
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human JAK1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-JAK1 Rabbit mAb [30G06P91] is for research use only and not for use in diagnostic or therapeutic procedures.

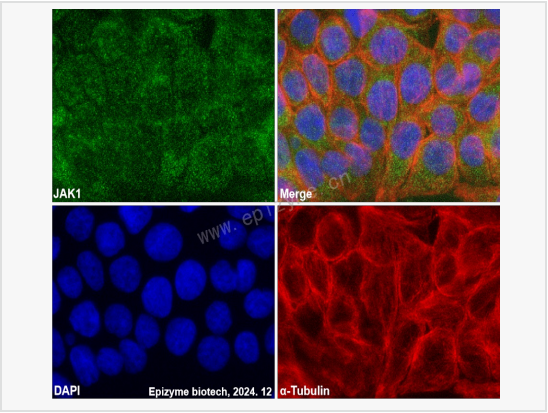
Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 133 kDa; Observed MW: 133 kDa
Uniprot ID	P23458
Gene ID	3716
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]
Cellular Location	Endomembrane system. Wholly intracellular, possibly membrane associated.
Tissue Location	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.

Validation Images



Western Blot - Anti-JAK1 Rabbit mAb [30G06P91]
All lanes: R014413 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 4: Mouse heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 133 kDa
Observed band size: 133 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-JAK1 Rabbit mAb [30G06P91]
Sample: HT-29 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014413 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).