Anti-JAK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013499

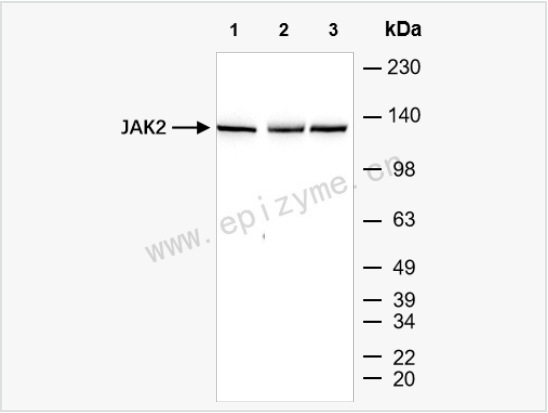
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA, IF (Cell)/ICC, IP
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200; IP 1:50~1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	32M03M85
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human JAK2
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-JAK2 Rabbit mAb [32M03M85] is for research use only and not for use in diagnostic or therapeutic procedures.

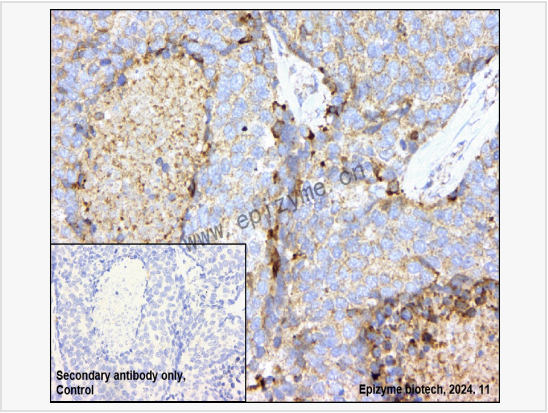
Protein Information

Synonyms	JAK 2; JAK-2; JAK2; JAK2_HUMAN; Janus Activating Kinase 2; Janus kinase 2 (a protein tyrosine kinase); Janus kinase 2; JTK 10; JTK10; kinase Jak2; OTTHUMP00000043260; THCYT3; Tyrosine protein kinase JAK2; Tyrosine-protein kinase JAK2.
Calculated MW	Calculated MW: 131 kDa; Observed MW: 131 kDa
Uniprot ID	O60674
Gene ID	3717
Background	This gene product is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constituitively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis. [provided by RefSeq, Jul 2008]
Cellular Location	Endomembrane system. Nucleus.
Tissue Location	Expressed in blood, bone marrow and lymph node.

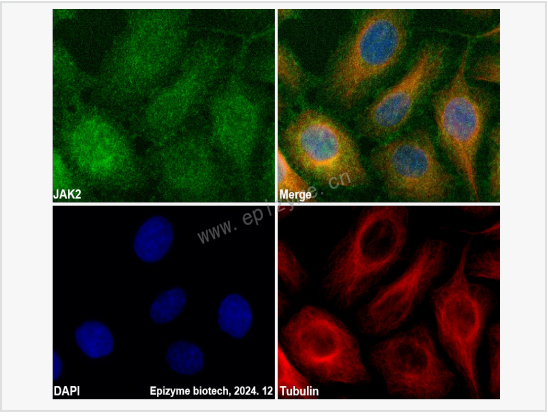
Validation Images



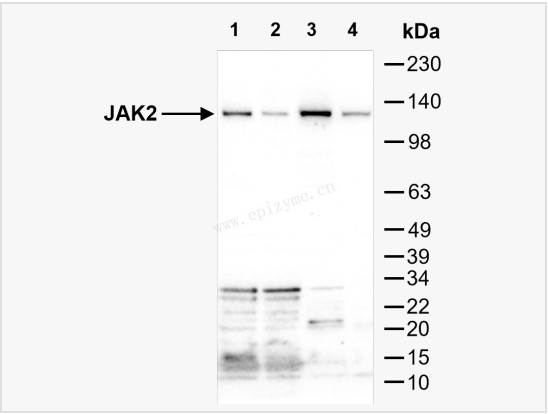
Western Blot - Anti-JAK2 Rabbit mAb [32M03M85]
All lanes: R013499 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Rat kidney whole tissue lysates
Lane 3: Rat spleen whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 131 kDa
Observed band size: 131 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-JAK2 Rabbit mAb [32M03M85]
Sample: Paraformaldehyde-fixed, paraffin embedded human lung cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013499 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-JAK2 Rabbit mAb [32M03M85]
Sample: HeLa 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: R013499 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).



Western Blot - Anti-JAK2 Rabbit mAb [32M03M85]
All lanes: R013499 at 1:2,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 3: Mouse brain whole tissue lysates
Lane 4: Mouse muscle 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: 131 kDa
Observed band size: 131 kDa
Developed using the ECL technique (Cat. No. SQ201).