Anti-STAT5a/STAT5b Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010941

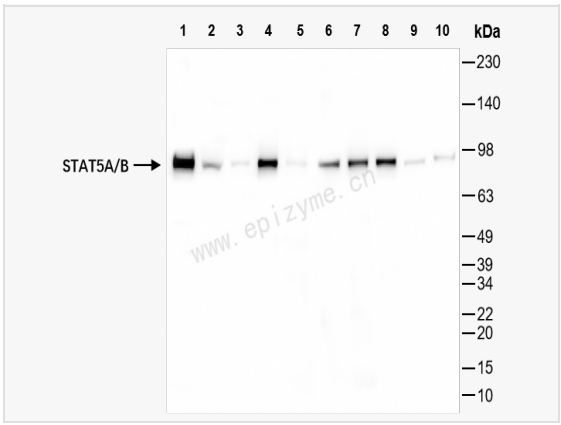
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	69M23K46
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human STAT5A
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20℃. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20℃ storage.
Precautions	Anti-STAT5a/STAT5b Rabbit mAb [69M23K46] is for research use only and not for use in diagnostic or therapeutic procedures.

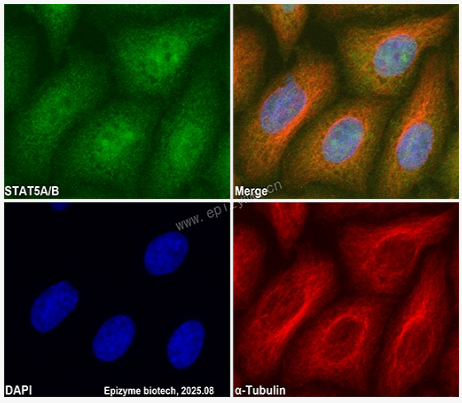
Protein Information

Synonyms	signal transducers and activators of transduction 5; MGF; Signal Transducer and Activator of Transcription 5A; STAT 5; STAT 5A; STAT 5B; STAT5A; STAT5B; Transcription factor STAT5A; STA5B_HUMAN; STA5A_HUMAN.
Calculated MW	Calculated MW: 91 kDa; Observed MW: 91 kDa
Uniprot ID	P42230
Gene ID	20850
Background	The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. Alternatively spliced transcript variants have

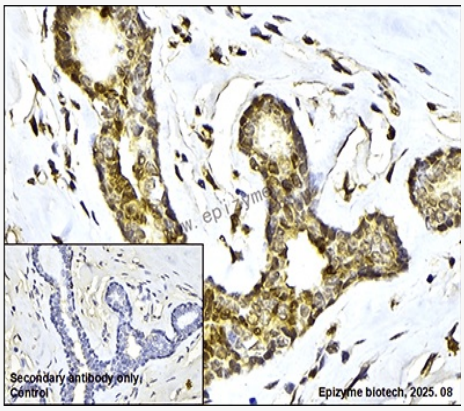
Validation Images



Western Blot - Anti-STAT5a/STAT5b Rabbit mAb [69M23K46]
All lanes: R010941 at 1:1,000 dilution
Lane 1: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 2: U87 (Human malignant glioblastoma epithelial cell) whole cell lysates
Lane 3: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 4: Mouse spleen whole tissue lysates
Lane 5: Mouse embryo-like whole tissue lysates
Lane 6: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 7: Rat spleen whole tissue lysates
Lane 8: Rat lymphoid whole tissue lysates
Lane 9: Rat testicular whole tissue lysates
Lane 10: Rat eyeball 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: 91 kDa
Observed band size: 91 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-STAT5a/STAT5b Rabbit mAb [69M23K46]
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: R010941 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).



Immunohistochemistry - Anti-STAT5a/STAT5b Rabbit mAb [69M23K46]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010941 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.