Anti-STAT5b Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011389

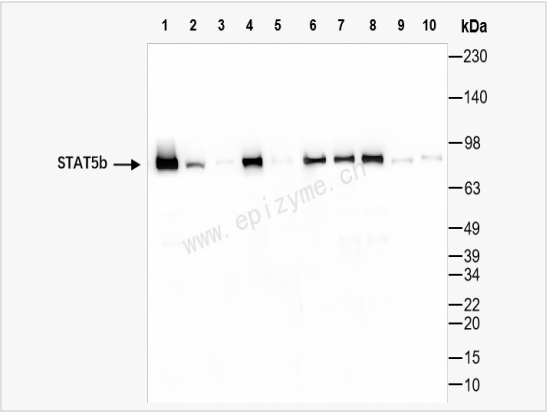
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	19M98L01
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human STAT5b
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°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-STAT5b Rabbit mAb [19M98L01] is for research use only and not for use in diagnostic or therapeutic procedures.

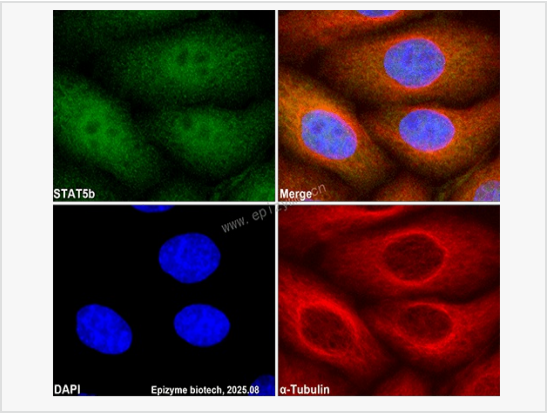
Protein Information

Synonyms	Signal transducer and activator of transcription 5B; STAT5B.
Calculated MW	Calculated MW: 90 kDa; Observed MW: 90 kDa
Uniprot ID	P51692
Gene ID	6777
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 mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm.Nucleus.Translocated into the nucleus in response to phosphorylation.

Validation Images



Western Blot - Anti-STAT5b Rabbit mAb [19M98L01]
All lanes: R011389 at 1:2,000 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: 90 kDa
Observed band size: 90 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-STAT5b Rabbit mAb [19M98L01]
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: R011389 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).