Anti-STAT6 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011707

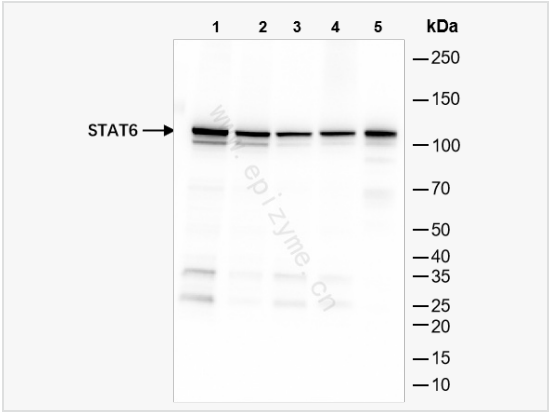
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, 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.	64L18L15
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human STAT6
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-STAT6 Rabbit mAb [64L18L15] is for research use only and not for use in diagnostic or therapeutic procedures.

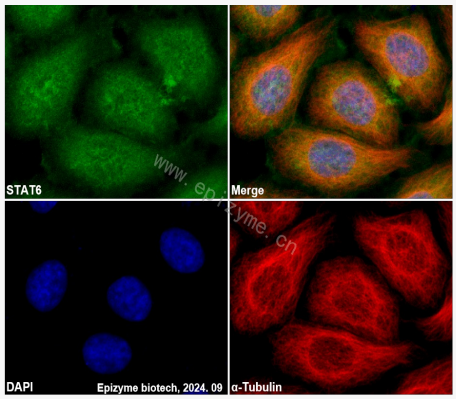
Protein Information

Synonyms	12S1644, D12S1644, IL 4 STAT, IL-4 Stat, IL4 STAT, Interleukin 4 Induced, Interleukin 4 Induced Transcription Factor IL4 STAT, Signal transducer and activator of transcription 6, Signal Transducer And Activator Of Transcription 6 Interleukin 4 Induced, Signal Transducer And Activator Of Transcription 6 Nirs Variant 1, Signal transducer and activator of transcription 6, interleukin 4 induced, STAT 6, STAT interleukin4 induced, STAT, interleukin4 induced, Stat6, STAT6_HUMAN, STAT6B, STAT6C, Transcription factor IL 4 STAT.
Calculated MW	Calculated MW: 94 kDa; Observed MW: 110 kDa
Uniprot ID	P42226
Gene ID	6778
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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]
Cellular Location	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

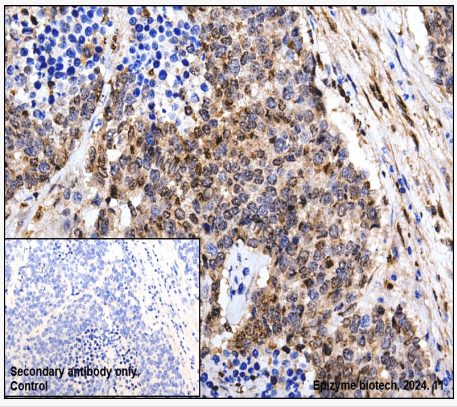
Validation Images



Western Blot - Anti-STAT6 Rabbit mAb [64L18L15]
All lanes: R011707 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell 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: 94 kDa
Observed band size: 110 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-STAT6 Rabbit mAb [64L18L15]
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: R011707 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-STAT6 Rabbit mAb [64L18L15]
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: R011707 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.