Anti-Phospho-STAT1 (Ser727) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014115

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Mouse, 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.	49R97B18
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-STAT1 (S727)
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-Phospho-STAT1 (Ser727) Rabbit mAb [49R97B18] is for research use only and not for use in diagnostic or therapeutic procedures.

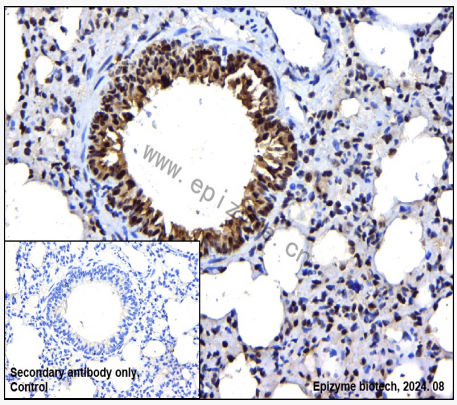
Protein Information

Synonyms	Signal transducer and activator of transcription 1 91kD, CANDF7, DKFZp686B04100, IMD31A, IMD31B, IMD31C, ISGF 3, ISGF-3, OTTHUMP00000163552, OTTHUMP00000165046, OTTHUMP00000165047, OTTHUMP00000205845, Signal transducer and activator of transcription 1 91kDa, Signal transducer and activator of transcription 1, Signal transducer and activator of transcription 1, 91kD, Signal transducer and activator of transcription 1-alpha/beta, STAT 1, Stat1, STAT1_HUMAN, STAT91, Transcription factor ISGF 3 components p91 p84, Transcription factor ISGF-3 components p91/p84, Transcription factor ISGF3 components p91/p84, XStat1.
Calculated MW	Calculated MW: 87 kDa; Observed MW: 87 kDa
Uniprot ID	P42224
Gene ID	6772
Background	The protein encoded by this gene is a member of the STAT protein family. 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.
Cellular Location	Cytoplasm. Nucleus. Translocated into the nucleus in response to IFN-gamma-induced tyrosine phosphorylation and dimerization.

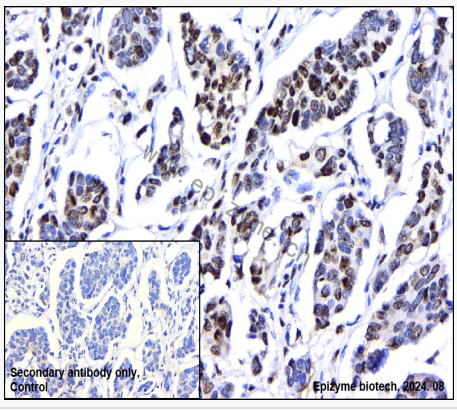
Validation Images



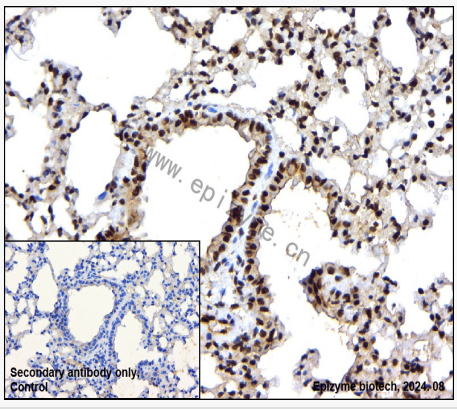
Western Blot - Anti-Phospho-STAT1 (Ser727) Rabbit mAb [49R97B18]
All lanes: R014115 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: Mouse brain whole tissue lysates
Lane 6: 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: 87 kDa
Observed band size: 87 kDa
Developed using the ECL technique (Cat. No. SQ201).



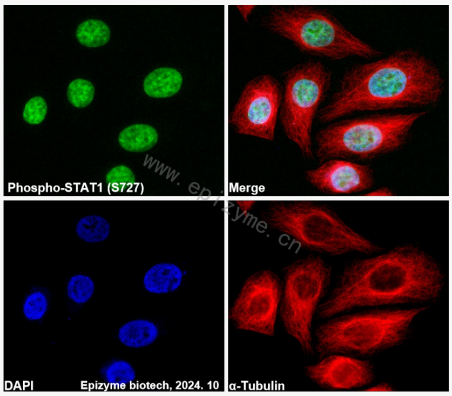
Immunohistochemistry - Anti-Phospho-STAT1 (Ser727) Rabbit mAb [49R97B18]
Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014115 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), 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.



Immunohistochemistry - Anti-Phospho-STAT1 (Ser727) Rabbit mAb [49R97B18]
Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014115 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.



Immunohistochemistry - Anti-Phospho-STAT1 (Ser727) Rabbit mAb [49R97B18]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse spleen tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014115 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-Phospho-STAT1 (Ser727) Rabbit mAb [49R97B18]
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: R014115 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).