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STAT1 Rabbit mAb

Catalog No.: A19563 Recombinant 24 Publications

Basic Information

Observed MW
84 kDa/91 kDa

Calculated MW
83 kDa/87 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IF-F,ChIP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC0042

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. The protein encoded by this gene can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. The protein plays an important role in immune responses to viral, fungal and mycobacterial pathogens. Mutations in this gene are associated with Immunodeficiency 31B, 31A, and 31C.

Recommended Dilutions

WB	1:18000 - 1:60000
IP	0.5 µg - 4 µg antibody for 200 µg-600 µg extracts of whole cells
IF/ICC	1:200 - 1:800
IF-F	1:200 - 1:800
ChIP	0.5 µg antibody for 10 µg - 15 µg of Chromatin
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6772

Swiss Prot
P42224

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91; STAT1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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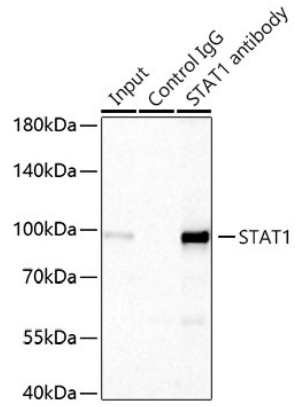
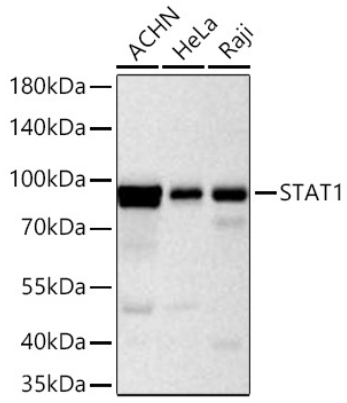
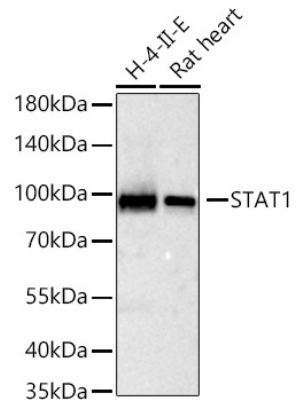
Validation Data



Immunoprecipitation of STAT1 from 400 µg extracts of HeLa cells was performed using 0.5 µg of STAT1 Rabbit mAb (A19563). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using STAT1 Rabbit mAb (A19563) at a dilution of 1:20000.

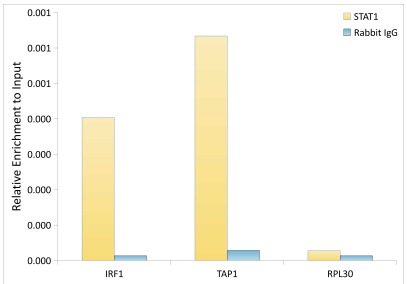


Western blot analysis of various lysates using STAT1 Rabbit mAb (A19563) at 1:20000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.

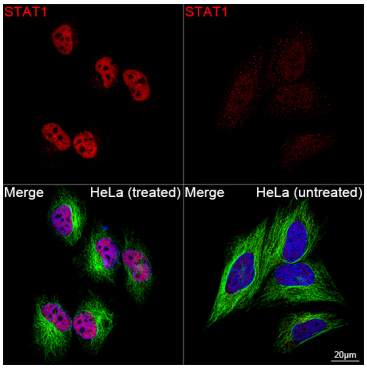


Western blot analysis of various lysates using STAT1 Rabbit mAb (A19563) at 1:20000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

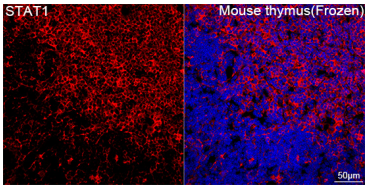
Validation Data



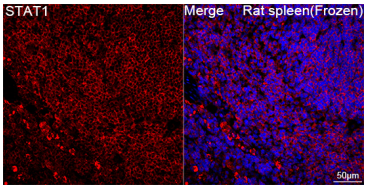
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from RAW 264.7 cells were treated with IFN-γ (50ng/ml, 30min), using 0.5 µg of STAT1 Rabbit mAb(A19563) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Confocal imaging of HeLa cells (treated with hIFN-α1) and HeLa cells (untreated) using STAT1 Rabbit mAb (A19563, dilution 1:600) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of frozen sections of Mouse thymus using STAT1 Rabbit mAb (A19563, dilution 1:600) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat spleen tissue using STAT1 Rabbit mAb (A19563, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.