

STAT1 Rabbit mAb

Catalog No.: A19563

Recombinant

16 Publications

Basic Information

Observed MW

87kDa

Calculated MW

87kDa

Category

Primary antibody

Applications

WB,IP,ELISA,ChIP-seq

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 1:1000 - 1:6000

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

ChIP-seq 1:50 - 1:200

Contact

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Immunogen Information

Gene ID

6772

Swiss Prot

P42224

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human STAT1 (P42224).

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

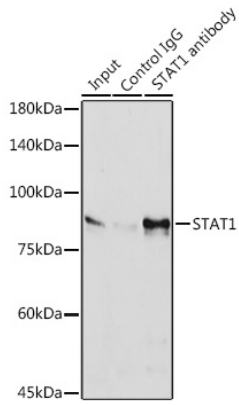
Affinity purification

Storage

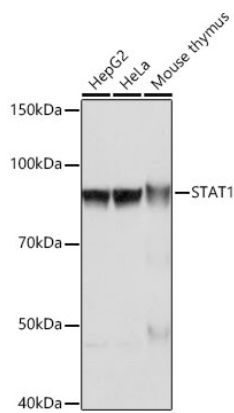
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

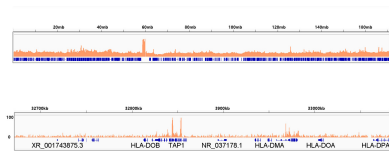
Validation Data



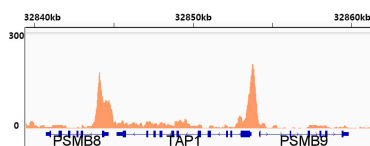
Immunoprecipitation analysis of 600 μ g extracts of HeLa cells using 3 μ g STAT1 antibody (A19563). Western blot was performed from the immunoprecipitate using STAT1 antibody (A19563) at a dilution of 1:1000.



Western blot analysis of various lysates using STAT1 Rabbit mAb (A19563) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Chromatin immunoprecipitation was performed with 35 μ g of cross-linked chromatin from HeLa cells treated by TNF- α (30ng/ml, 1h) using 5 μ g of STAT1 Rabbit mAb (A19563). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of STAT1 across chromosome 6 (upper panel) and the genomic region encompassing TAP1, a representative gene enriched in STAT1 (lower panel).



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