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[KO Validated] STAT1 Rabbit mAb

Catalog No.: A28912 KO Validated Recombinant

Basic Information

Observed MW
84 kDa/91 kDa

Calculated MW
87 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IHC-P,ChIP,ELISA

Cross-Reactivity
Mouse, Rat

CloneNo number
ARC81721

Background

Enables DNA-binding transcription factor activity, RNA polymerase II-specific. Involved in cell population proliferation; cell surface receptor signaling pathway via JAK-STAT; and defense response to other organism. Acts upstream of or within with a positive effect on positive regulation of apoptotic process. Acts upstream of or within several processes, including cell surface receptor signaling pathway; negative regulation of macrophage fusion; and response to exogenous dsRNA. Located in cytoplasm and nucleus. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; hemolymphoid system gland; and skeletal musculature. Used to study breast cancer and severe acute respiratory syndrome. Human ortholog(s) of this gene implicated in adenocarcinoma (multiple); breast carcinoma; immunodeficiency 31A; immunodeficiency 31B; and immunodeficiency 31C. Orthologous to human STAT1 (signal transducer and activator of transcription 1).

Recommended Dilutions

WB	1:2000 - 1:10000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:100 - 1:200
IHC-P	1:300 - 1:1200
ChIP	2 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. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
20846

Swiss Prot
Q8C3V4

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

Synonyms
2010005J02Rik

Product Information

Source
Rabbit

Isotype
IgG

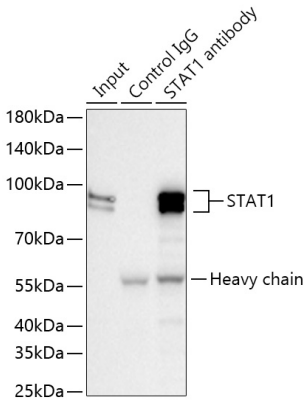
Purification
Affinity purification

Storage
Store at -20℃

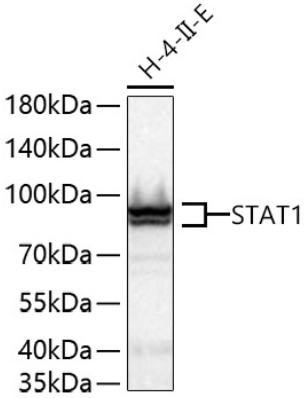
Contact

☎	400-999-6126
✉	cn.market@abclonal.com.cn
🌐	www.abclonal.com.cn

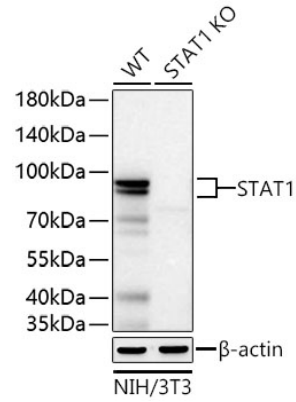
Validation Data



Immunoprecipitation of STAT1 from 300 µg extracts of RAW 264.7 cells was performed using 2 µg of [KO Validated] STAT1 Rabbit mAb (A28912). 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 [KO Validated] STAT1 Rabbit mAb (A28912) at a dilution of 1:5000.

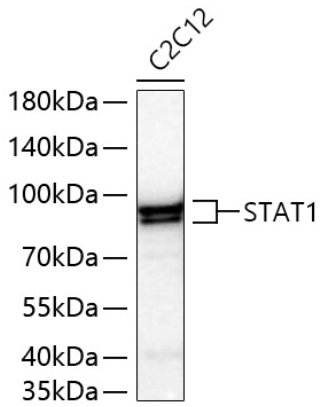


Western blot analysis of lysates from H-4-II-E cells using [KO Validated] STAT1 Rabbit mAb (A28912) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.

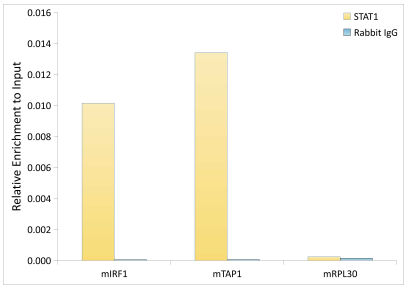


Western blot analysis of lysates from wild type (WT) and STAT1 knockout (KO) NIH/3T3 cells using [KO Validated] STAT1 Rabbit mAb (A28912) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.

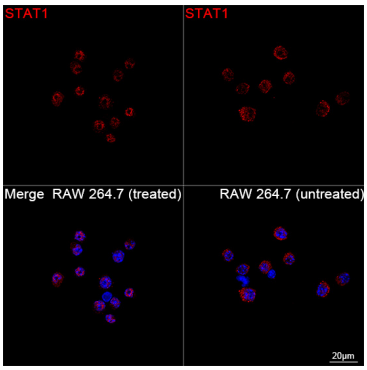
Validation Data



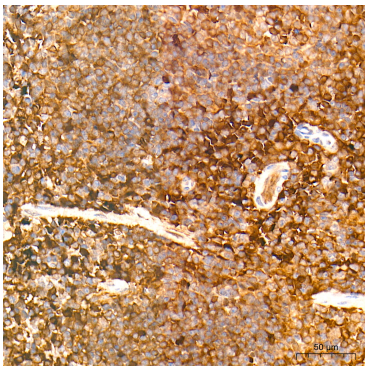
Western blot analysis of lysates from C2C12 cells using [KO Validated] STAT1 Rabbit mAb (A28912) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



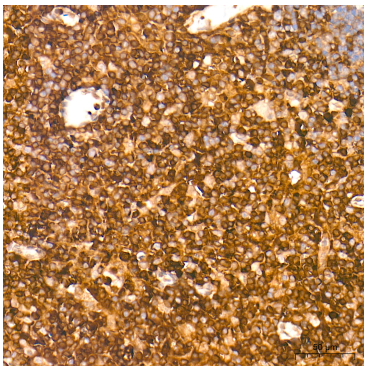
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from RAW 264.7 cells were treated with IFN-γ(50 ng/mL,30 min), using 2 µg of [KO Validated] STAT1 Rabbit mAb (A28912) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Confocal imaging of RAW 264.7 cells (treated with IFN-γ) and RAW 264.7 cells (untreated) using [KO Validated] STAT1 Rabbit mAb (A28912, 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). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using [KO Validated] STAT1 Rabbit mAb (A28912) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat thymus tissue using [KO Validated] STAT1 Rabbit mAb (A28912) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.