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IRF1 Rabbit mAb

Catalog No.: A28949 Recombinant

Basic Information

Observed MW
46 kDa

Calculated MW
37 kDa

Category
Primary antibody

Applications
WB,IF/ICC,ChIP,ELISA

Cross-Reactivity
Mouse, Rat

CloneNo number
ARC81803

Background

Enables DNA-binding transcription factor activity, RNA polymerase II-specific and sequence-specific DNA binding activity. Involved in several processes, including defense response to other organism; regulation of T cell activation; and regulation of gene expression. Acts upstream of or within CD8-positive, alpha-beta T cell differentiation; positive regulation of interleukin-12 production; and positive regulation of transcription by RNA polymerase II. Located in cytoplasm and nucleus. Is expressed in several structures, including bone marrow; early conceptus; eye; genitourinary system; and gut. Human ortholog(s) of this gene implicated in asthma; immunodeficiency 117; lung cancer (multiple); smallpox; and stomach cancer (multiple). Orthologous to human IRF1 (interferon regulatory factor 1).

Recommended Dilutions

WB	1: 4000-1: 10000
IF/ICC	1: 1000 - 1: 6000
ChIP	0.3 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
16362

Swiss Prot
P15314

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

Synonyms
Irf-1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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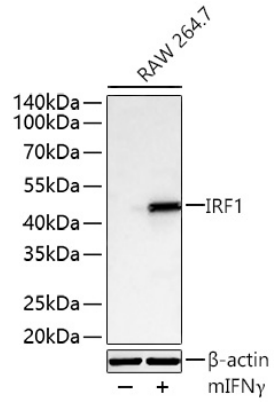
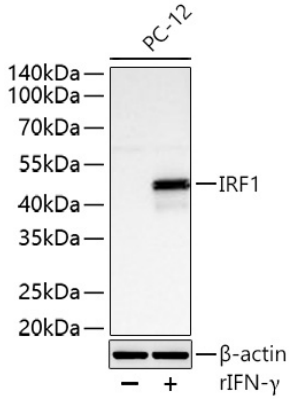
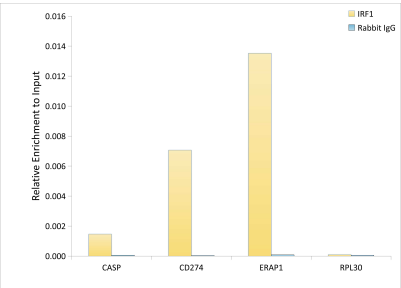
Validation Data



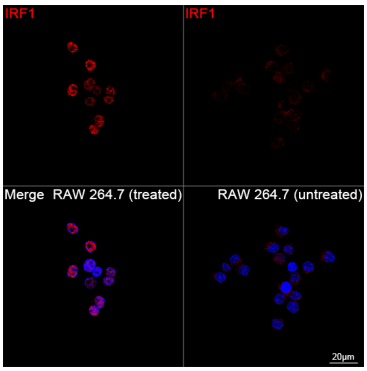
Western blot analysis of lysates from RAW 264.7 cells using IRF1 Rabbit mAb (A28949) at 1:10000 dilution incubated overnight at 4℃. RAW 264.7 cells were treated with mIFN-γ (100 ng/mL) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.

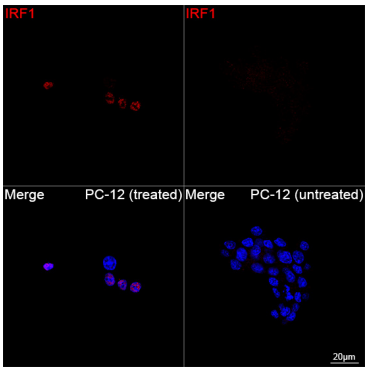


Western blot analysis of lysates from PC-12 cells using IRF1 Rabbit mAb (A28949) at 1:10000 dilution incubated overnight at 4℃. PC-12 cells were treated with rIFN-γ (100 ng/mL) at 37℃ for 4 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.

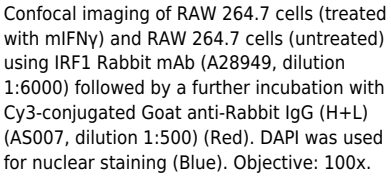


Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from RAW 264.7 cells were treated with mIFN-γ(100 ng/mL,18 h), using 0.3 µg of IRF1 Rabbit mAb(A28949) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

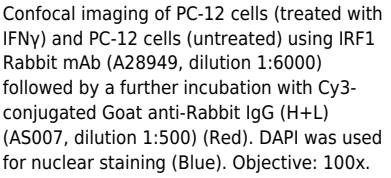




Validation Data



Confocal imaging of RAW 264.7 cells (treated with mIFNγ) and RAW 264.7 cells (untreated) using IRF1 Rabbit mAb (A28949, dilution 1:6000) 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.



Confocal imaging of PC-12 cells (treated with IFNγ) and PC-12 cells (untreated) using IRF1 Rabbit mAb (A28949, dilution 1:6000) 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.