Leader in Biomolecular Solutions for Life Science

IRF1 Rabbit mAb

Catalog No.: A30089

Recombinant

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Basic Information

Observed MW
45-48 kDa

Calculated MW
36 kDa

Category
Monoclonal Antibodies

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

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC3622

Background

The protein encoded by this gene is a transcriptional regulator and tumor suppressor, serving as an activator of genes involved in both innate and acquired immune responses. The encoded protein activates the transcription of genes involved in the body's response to viruses and bacteria, playing a role in cell proliferation, apoptosis, the immune response, and DNA damage response. This protein represses the transcription of several other genes. As a tumor suppressor, it both suppresses tumor cell growth and stimulates an immune response against tumor cells. Defects in this gene have been associated with gastric cancer, myelogenous leukemia, and lung cancer.

Recommended Dilutions

WB 1:10000 - 1:50000

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

IF/ICC 1:600 - 1:6000

IHC-P 1:500 - 1:1500

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
3659

Swiss-Prot
P10914

Immunogen
This information is considered to be commercially sensitive.

Synonyms
MAR; IRF-1; IMD117

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

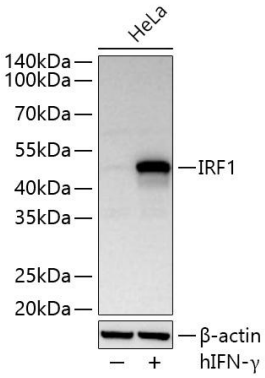
Source
Rabbit

Isotype
IgG

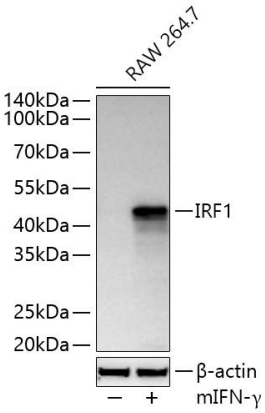
Purity
Affinity purification

Storage
Store at -20℃

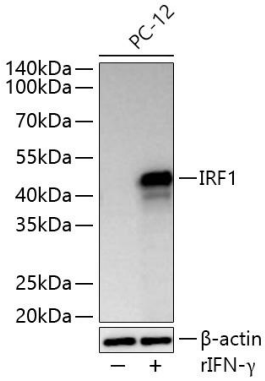
Validation Data



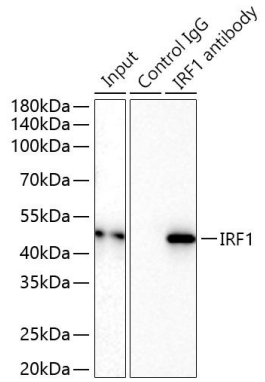
Western blot analysis of lysates from HeLa cells using IRF1 Rabbit mAb (A30089) at 1:30000 dilution incubated overnight at 4℃. HeLa cells were treated with hIFN-γ (100 ng/mL) at 37℃ for 4 hours after serum starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 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 RAW 264.7 cells using IRF1 Rabbit mAb (A30089) at 1:30000 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 (A30089) at 1:30000 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.



Immunoprecipitation of IRF1 from 300 µg extracts of HeLa cells treated with hIFN-γ (100 ng/mL, 4 hours) was performed using 2 µg of IRF1 Rabbit mAb (A30089). 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 IRF1 Rabbit mAb (A30089) at a dilution of 1:30000.

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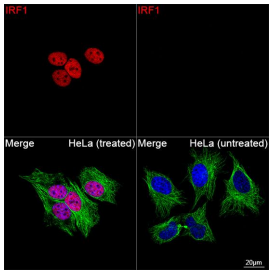
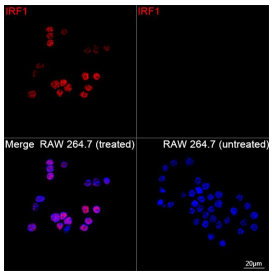
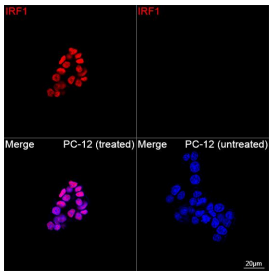


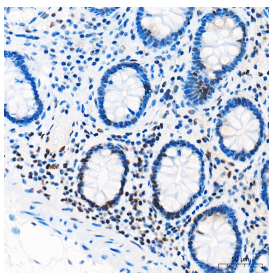
Confocal imaging of HeLa cells (treated with hIFN-γ) and HeLa cells (untreated) using IRF1 Rabbit mAb (A30089, dilution 1:6000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



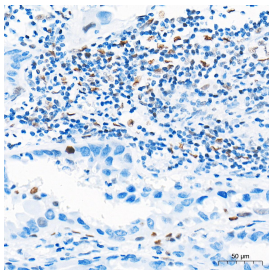
Confocal imaging of RAW 264.7 cells (treated with mIFN-γ) and RAW 264.7 cells (untreated) using IRF1 Rabbit mAb (A30089, dilution 1:6000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



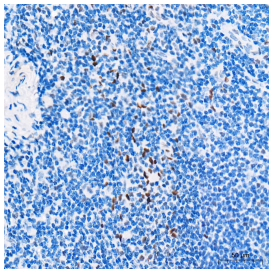
Confocal imaging of PC-12 cells (treated with IFNγ(R)) and PC-12 cells (untreated) using IRF1 Rabbit mAb (A30089, dilution 1:6000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



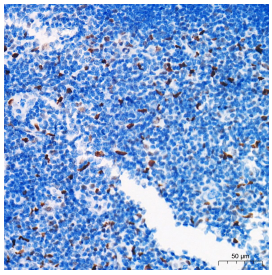
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using IRF1 Rabbit mAb (A30089) at a dilution of 1:1500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



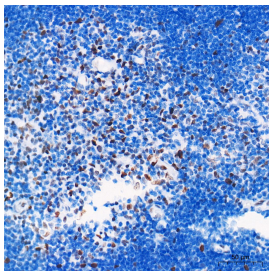
Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using IRF1 Rabbit mAb (A30089) at a dilution of 1:1500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using IRF1 Rabbit mAb (A30089) at a dilution of 1:1500 (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 Mouse thymus tissue using IRF1 Rabbit mAb (A30089) at a dilution of 1:1500 (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 IRF1 Rabbit mAb (A30089) at a dilution of 1:1500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.