bsm-52114R **[Primary Antibody]**

IRF1 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 3G7
GeneID: 3659
SWISS: P10914
Target: IRF1
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: IRF1 encodes interferon regulatory factor 1, a member of the interferon regulatory transcription factor (IRF) family. IRF1 serves as an activator of interferons alpha and beta transcription, and in mouse it has been shown to be required for double-stranded RNA induction of these genes. IRF1 also functions as a transcription activator of genes induced by interferons alpha, beta, and gamma. Further, IRF1 has been shown to play roles in regulating apoptosis and tumor-suppression.

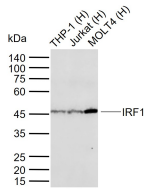
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
Flow-Cyt (1:50)
ICC/IF (1:50)

Reactivity: Human, Mouse

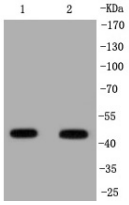
Predicted MW.: 37 kDa

Subcellular Location: Nucleus

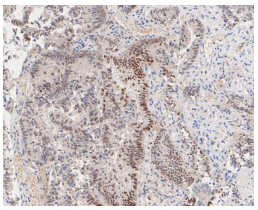
VALIDATION IMAGES



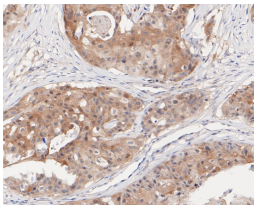
Sample: Lane 1: Human THP-1 cell lysates Lane 2: Human Jurkat cell lysates Lane 3: Human MOLT4 cell lysates Primary: Anti-IRF1 (bsm-52114R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kDa Observed band size: 46 kDa



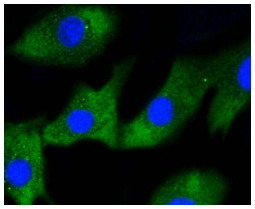
Sample: Lane 1: PC-12 cell lysates Lane 2: Jurkat cell lysates Primary: Anti-IRF1 (bsm-52114R) at 1/500 dilution Secondary: Goat Anti-Rabbit IgG - HRP at 1/5000 dilution Predicted band size: 37 kD Observed band size: 48 kD



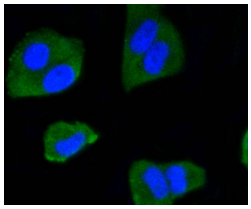
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IRF1) Monoclonal Antibody, Unconjugated (bsm-52114R) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IRF1) Monoclonal Antibody, Unconjugated (bsm-52114R) at 1:50 overnight at 4°C, followed by operating

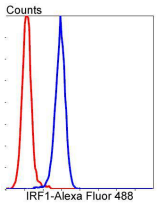


NIH/3T3 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (IRF1) monoclonal Antibody, Unconjugated (bsm-52114R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (IRF1) monoclonal Antibody, Unconjugated (bsm-52114R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: Jurkat. Primary Antibody (green line): Rabbit Anti-IRF1 antibody (bsm-52114R) Dilution: 1:50; Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1:1000. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=4.36]** Pengcheng Zhou. et al. Tiao-bu-fei-shen formula promotes downregulation of the caveolin 1-p38 mapk signaling pathway in COPD - Associated tracheobronchomalacia cell model. J ETHNOPHARMACOL. J Ethnopharmacol. 2022 Apr;:115256 WB ;Mouse. 35367574
- **[IF=3.448]** Yang T et al. Mechanism of berberine in treating Helicobacter pylori induced chronic atrophic gastritis through IRF8-IFN-γ signaling axis suppressing. Life Sci. 2020 Feb 22;248:117456. WB ;Rat. 32097666