For Research Use Only

IRF3 Polyclonal antibody

Catalog Number:11312-1-AP Featured Product 375 Publications

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Basic Information

Catalog Number:
11312-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1858

GenBank Accession Number:
BC009395

GeneID (NCBI):
3661

UNIPROT ID:
Q14653

Full Name:
interferon regulatory factor 3

Calculated MW:
47 kDa

Observed MW:
50-60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:5000-1:50000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, ChIP, RIP

Species Specificity:
human

Cited Species:
human, pig, monkey, chicken, bovine, hamster, sheep

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293T cells, HCT 116 cells, Jurkat cells, MCF-7 cells, MDA-MB-231 cells, HeLa cells

IP : Jurkat cells,

IHC : human tonsillitis tissue,

IF/ICC : HeLa cells,

Background Information

The virul-induced expression of interferon(IFN) genes in infected cells implicate in the interplay of several constitutively expressed and virus-activated transcription factors. A family of IFN regulatory factors(IRFs) have been shown to has a role in the transcription of IFN genes as well as IFN-stimulated genes. IRF3 is a novel key transcriptional regulator of type I IFN-dependent immune responses and involves in the innate immune response against DNA and RNA viruses, by binding to the promoters of IFN. It located in the cytoplasm of uninfected cells in an inactive form, and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, could be phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization, nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of the type I IFN and ISG genes. IRF3 exists some isoforms with MV 47-49 kDa, 33 kDa and 12-16 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Tianxiao Xu	34571002	J Invest Dermatol	WB
Meidi Gu	25239187	Cell Signal	WB
Zongyi Bo	32933581	Vet Res	WB,IF,CoIP,ChIP

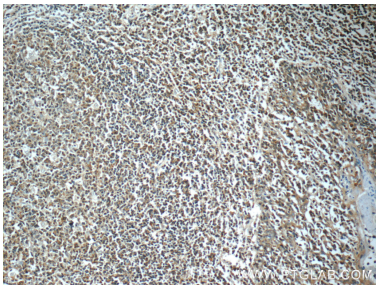
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

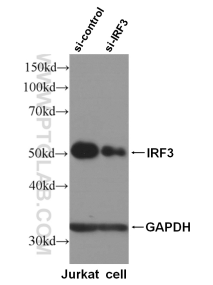
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

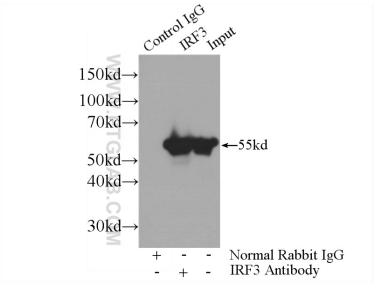
Selected Validation Data



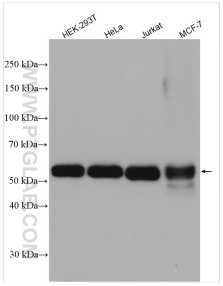
Immunohistochemical analysis of paraffin-embedded human tonsillitis slide using 11312-1-AP (IRF3 Antibody) at dilution of 1:50.



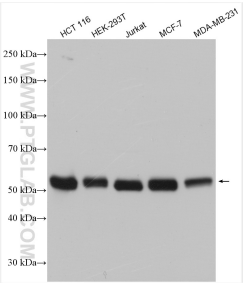
WB result of IRF3 specific antibody (11312-1-AP, 1:5000) with si-control and si-IRF3 transfected Jurkat cells.



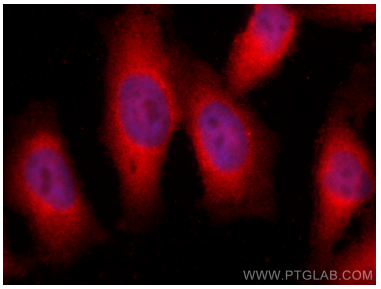
IP result of anti-IRF3 (IP:11312-1-AP, 3ug; Detection:11312-1-AP 1:1000) with Jurkat cells lysate 2400ug.



Various lysates were subjected to SDS PAGE followed by western blot with 11312-1-AP (IRF3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 11312-1-AP (IRF3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using IRF3 antibody (11312-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).