

For Research Use Only

# IRF3 Polyclonal antibody

Catalog Number: 11312-1-AP

Featured Product

85 Publications



## Basic Information

<b>Catalog Number:</b> 11312-1-AP	<b>GenBank Accession Number:</b> BC009395	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3661	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> interferon regulatory factor 3	<b>IHC 1:50-1:200</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 47 kDa	
<b>Immunogen Catalog Number:</b> AG1858	<b>Observed MW:</b> 49-55 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> <b>WB :</b> HeLa cells, U-937 cells, human brain tissue, Jurkat cells, mouse brain tissue
<b>Cited Applications:</b> ChIP, CoIP, IF, IHC, IP, WB	<b>IP :</b> Jurkat cells,
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human spleen tissue,
<b>Cited Species:</b> human, monkey, mouse, pig, rat, sheep	<b>IF :</b> HepG2 cells,

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

## Background Information

The virus-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 have 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 IKKε 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

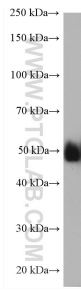
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

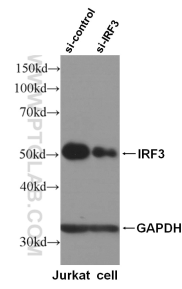
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

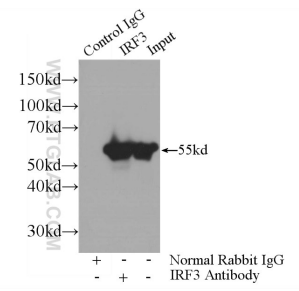
## Selected Validation Data



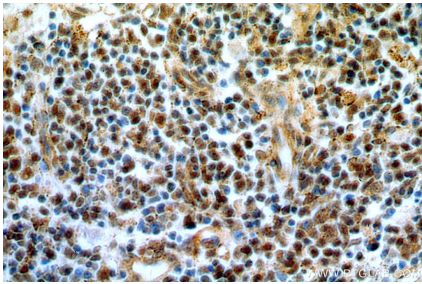
HeLa cells were subjected to SDS PAGE followed by western blot with 11312-1-AP (IRF3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



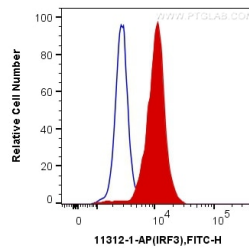
WB result of IRF3 specific antibody (11312-1-AP, 1:5000) with si-control and si-IRF3 transfected Jurkat cells.



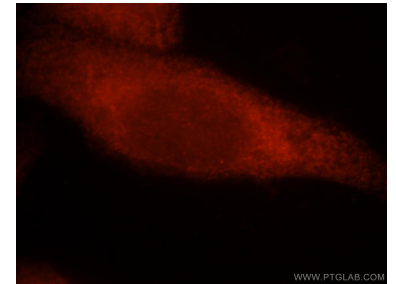
IP Result of anti-IRF3 (IP:11312-1-AP, 3ug; Detection:11312-1-AP 1:1000) with Jurkat cells lysate 2400ug.



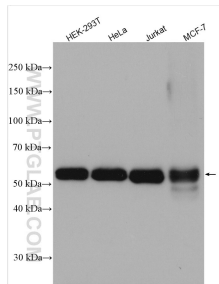
Immunohistochemical analysis of paraffin-embedded human spleen using 11312-1-AP (IRF3 antibody) at dilution of 1:50 (under 40x lens).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.2 ug Anti-Human IRF3 (11312-1-AP) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of HepG2 cells, using IRF3 antibody 11312-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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.