

For Research Use Only

# IRF9 Polyclonal antibody

Catalog Number: 14167-1-AP

Featured Product

32 Publications



## Basic Information

### Catalog Number:

14167-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5365

### GenBank Accession Number:

BC035716

### GeneID (NCBI):

10379

### UNIPROT ID:

Q00978

### Full Name:

IRF 9

### Calculated MW:

393 aa, 44 kDa

### Observed MW:

44-48 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, 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:** A549 cells, mouse heart tissue, rat heart tissue, HepG2 cells, MCF-7 cells, HeLa cells, THP-1 cells

**IP:** mouse heart tissue,

**IHC:** human cervical cancer tissue,

**IF/ICC:** HepG2 cells,

## Background Information

IRF9 also named ISGF3 is a transcription regulatory factor that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IFN stimulated genes, which drive the cell in an antiviral state.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yinglu Li	36206767	Mol Cell	WB
Joshua E Burda	35614216	Nature	IHC
Joshua D Jackson	26883073	Mol Cancer Res	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

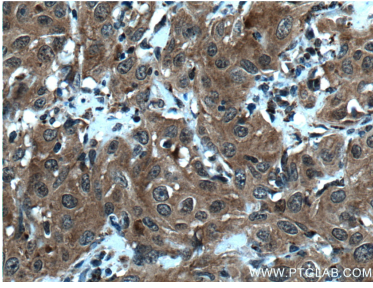
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

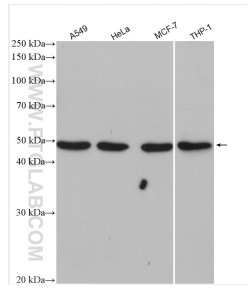
E: proteintech@ptglab.com  
W: ptglab.com

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

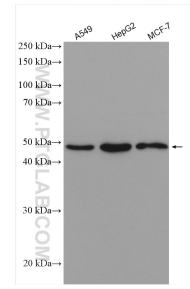
## Selected Validation Data



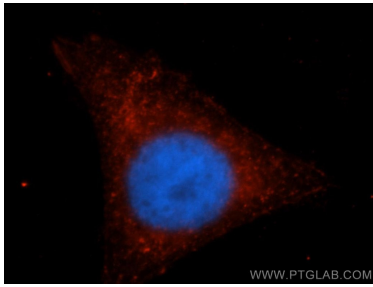
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 14167-1-AP (IRF9 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



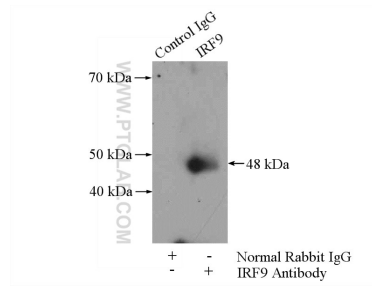
Various lysates were subjected to SDS PAGE followed by western blot with 14167-1-AP (IRF9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 14167-1-AP (IRF9 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using IRF9 antibody 14167-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-IRF9 (IP:14167-1-AP, 4ug; Detection:14167-1-AP 1:500) with mouse heart tissue lysate 3200ug.