

For Research Use Only

# IRF5 Polyclonal antibody

Catalog Number: 10547-1-AP **31 Publications**



## Basic Information

<b>Catalog Number:</b> 10547-1-AP	<b>GenBank Accession Number:</b> BC004201	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3663	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> interferon regulatory factor 5	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 56 kDa	
<b>Immunogen Catalog Number:</b> AG0841	<b>Observed MW:</b> 56 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> <b>WB :</b> THP-1 cells, SH-SY5Y cells, Jurkat cells
<b>Cited Applications:</b> IF, IHC, IP, WB	<b>IP :</b> HeLa cells,
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human prostate cancer tissue, human breast cancer tissue
<b>Cited Species:</b> brovine, human, mouse, 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

IRF5, also named as SLEB10, contains one IRF tryptophan pentad repeat DNA-binding domain and belongs to the IRF family. It is a transcription factor involved in the induction of interferons IFNA and INFB and inflammatory cytokines upon virus infection. It is activated by TLR7 or TLR8 signaling. Genetic variations in IRF5 are associated with susceptibility to inflammatory bowel disease type 14 (IBD14) and systemic lupus erythematosus type 10 (SLEB10). Alternative splice variant encoding different isoforms exist. Catalog# 10547-1-AP is a rabbit polyclonal antibody raised against the C-terminal of human IRF5.

## Notable Publications

Author	Pubmed ID	Journal	Application
Stephanie Georgina Dakin	29118051	Br J Sports Med	IF
Hong Lu	31177020	Phytomedicine	WB,IF
Dandan Sheng	35613826	J Immunother Cancer	WB

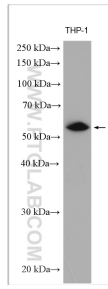
## Storage

**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

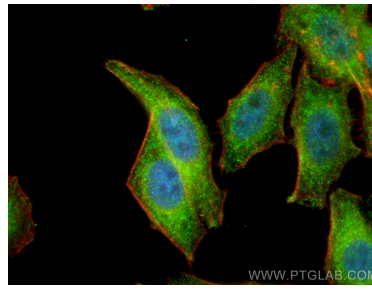
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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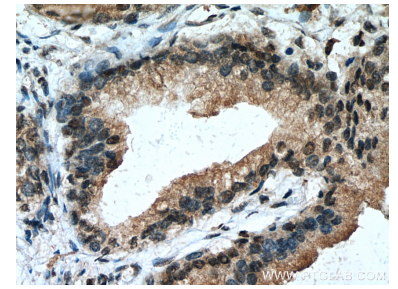
## Selected Validation Data



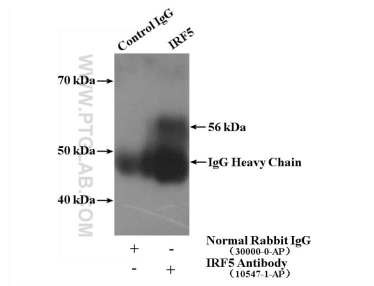
Various lysates were subjected to SDS PAGE followed by western blot with 10547-1-AP (IRF5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



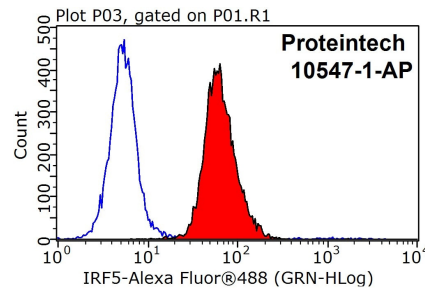
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using IRF5 antibody (10547-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10547-1-AP (IRF5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-IRF5 (IP:10547-1-AP, 4ug; Detection:10547-1-AP 1:300) with HeLa cells lysate 1600ug.



1x10<sup>6</sup> HepG2 cells were stained with 0.2ug IRF5 antibody (10547-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.