

IRF3 Polyclonal Antibody

Catalog number: 11312-1-AP

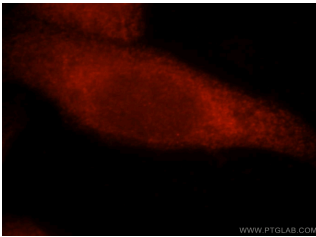
Size: 30 µg/150 µl

Source: Rabbit

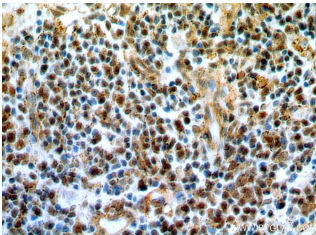
Isotype: IgG

Synonyms:

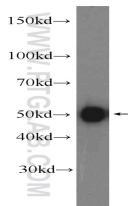
IRF3; interferon regulatory factor 3, IRF 3, IRF3



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



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



Jurkat cells were subjected to SDS PAGE followed by western blot with 11312-1-AP(IRF3 antibody) at dilution of 1:1000

Background

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

Applications

Tested applications:	ELISA, WB, IHC, IF, IP, FC
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated IRF3 MW:	49 kDa
Observed IRF3 MW:	49-55 kDa
Positive WB detected in	Jurkat cells, human brain tissue, mouse brain tissue, rat brain tissue, U-937 cells
Positive IP detected in	Jurkat cells
Positive IHC detected in	Human spleen tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:10-1:100 FC: N/A

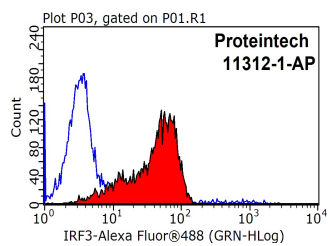
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

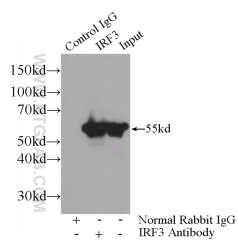
Immunogen:	Ag1858
GenBank accession number:	BC009395
Gene ID (NCBI):	3661
Full name:	Interferon regulatory factor 3

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



1X10⁶ HepG2 cells were stained with .2ug IRF3 antibody (11312-1-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.



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