For Research Use Only

CoraLite® Plus 488-conjugated IRF3 Polyclonal antibody

Catalog Number:CL488-11312 Featured Product 2 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-11312

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:
IF/ICC: 1:50-1:500
FC (Intra): 0.80 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
IF

Species Specificity:
human

Cited Species:
human

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : human peripheral blood lymphocytes,

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
Yiting Cai	40883572	Nat Immunol	
Lin Zhu	38285487	Elife	IF

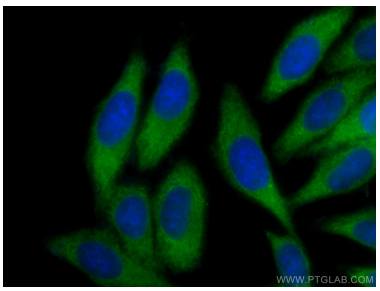
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

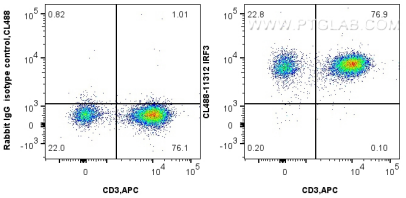
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 IRF3 antibody (CL488-11312) at dilution of 1:200.



1x10^6 human peripheral blood lymphocytes were intracellularly stained with 0.8 ug CoraLite® Plus 488-conjugated IRF3 Polyclonal antibody (CL488-11312)(red), or 0.8 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.