

For Research Use Only

# IFITM2 Recombinant antibody

Catalog Number: 83455-5-RR

Featured Product



## Basic Information

Catalog Number:

83455-5-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3451

GenBank Accession Number:

BC009696

GeneID (NCBI):

10581

UNIPROT ID:

Q01629

Full Name:

interferon induced transmembrane protein 2 (1-8D)

Calculated MW:

132 aa, 15 kDa

Observed MW:

15 kDa

Purification Method:

Protein A purification

CloneNo.:

240318B6

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HepG2 cells, SGC-7901 cells, MCF-7 cells, A549 cells

IF/ICC : HepG2 cells,

FC (Intra) : MCF-7 cells,

## Background Information

IFITM2, also named as 1-8D, belongs to the CD225 family. It is an IFN-induced antiviral protein that mediates cellular innate immunity to at least three major human pathogens, namely influenza A H1N1 virus, West Nile virus (WNV), and dengue virus, by inhibiting the early steps of replication. IFITM2 induces cell cycle arrest and mediates apoptosis by caspase activation and in a p53-independent manner. It is overexpressed in colon carcinoma. IFITM2 is a novel pro-apoptotic gene that will provide new insights into the regulated cellular pathways to death. IFITM proteins are recently identified as viral restriction factors that inhibit infection mediated by the influenza A virus (IAV) hemagglutinin (HA) protein. Also, they serve as important components of the innate immune system to restrict HIV-1 infection.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

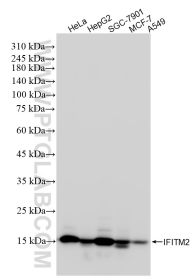
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

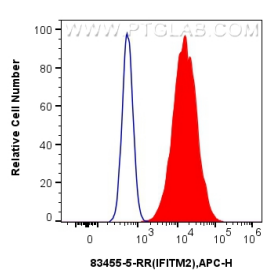
W: [ptgcn.com](http://ptgcn.com)

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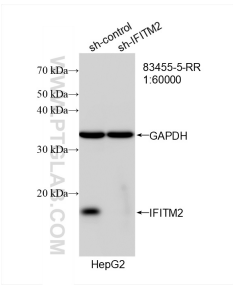
Selected Validation Data



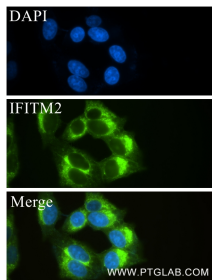
Various lysates were subjected to SDS PAGE followed by western blot with 83455-5-RR (IFITM2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



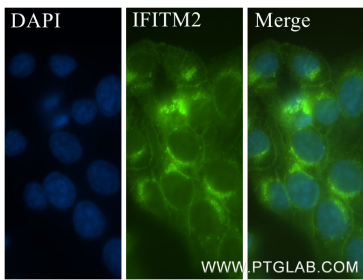
1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug IFITM2 Recombinant antibody (83455-5-RR, Clone:240318B6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



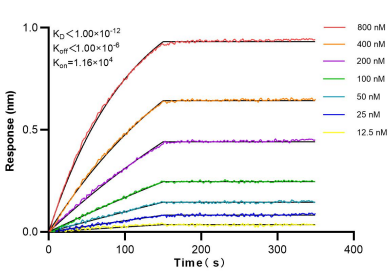
WB result of IFITM2 antibody (83455-5-RR; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IFITM2 transfected HepG2 cells.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using IFITM2 antibody (83455-5-RR, Clone: 240318B6 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using IFITM2 antibody (83455-5-RR, Clone: 240318B6 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 83455-5-RR against Human IFITM2 were performed. The affinity constant is below 1 pM.