

# IFITM2 Polyclonal antibody

Catalog Number: 12769-1-AP

Featured Product

39 Publications

## Basic Information

## Catalog Number:

12769-1-AP

## Size:

350 µg/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:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:20-1:200

IF 1:20-1:200

## Applications

## Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

## Cited Applications:

WB, IP, IF, FC, IHC

## Species Specificity:

human, mouse

## Cited Species:

human, mouse, pig

**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 : HepG2 cells, MCF-7 cells

IP : HepG2 cells,

IHC : human breast cancer tissue, mouse brain tissue

IF : HepG2 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 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. Catalog# 12769-1-AP is a rabbit polyclonal antibody produced with full-length of human IFITM2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Florian Wensch	25256397	Viruses	WB
Wei Zhang	25228491	J Gen Virol	WB, IF
Jinsun Kim	33209202	Anim Cells Syst (Seoul)	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

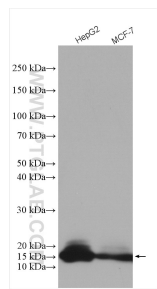
For technical support and original validation data for this product please contact:

T: 4006900926

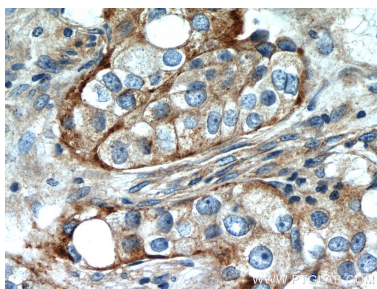
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

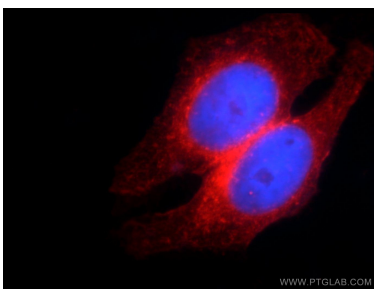
Selected Validation Data



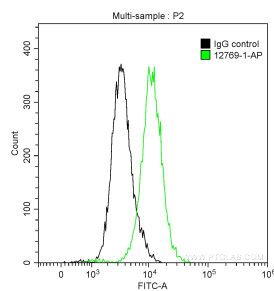
Various lysates were subjected to SDS PAGE followed by western blot with 12769-1-AP (IFITM2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



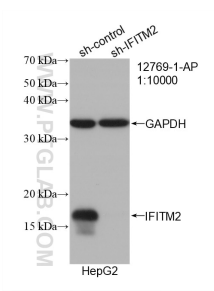
Immunohistochemical analysis of paraffin-embedded human breast cancer slide using 12769-1-AP (IFITM2 Antibody) at dilution of 1:50.



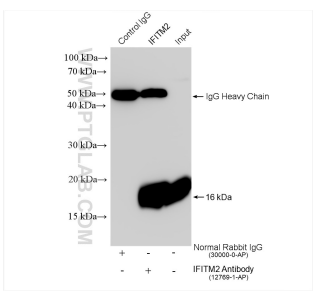
Immunofluorescent analysis of HepG2 cells using 12769-1-AP (IFITM2 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.



1X10<sup>6</sup> MCF-7 cells were stained with 0.2 ug Anti-Human IFITM2 (12769-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.



WB result of IFITM2 antibody (12769-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IFITM2 transfected HepG2 cells.



IP result of anti-IFITM2 (IP:12769-1-AP, 4ug; Detection:12769-1-AP 1:10000) with HepG2 cells lysate 1360 ug.