For Research Use Only

IFITM2 Polyclonal antibody

Catalog Number:12769-1-AP Featured Product 39 Publications

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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 ug 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:
FC, IF, IHC, IP, WB

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

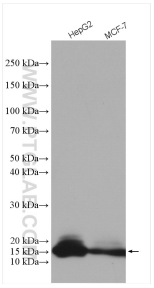
Author	Pubmed ID	Journal	Application
Florian Wrensch	25256397	Viruses	WB
Wei Zhang	25228491	J Gen Virol	WB, IF
Jinsun Kim	33209202	Anim Cells Syst (Seoul)	WB

Storage

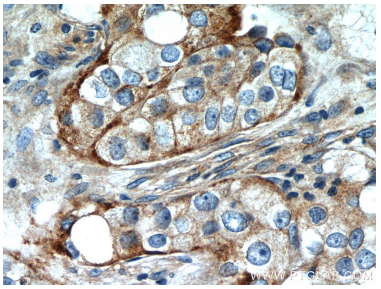
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

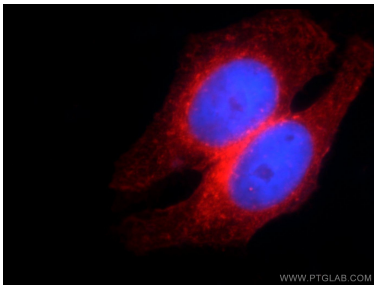
Selected Validation Data



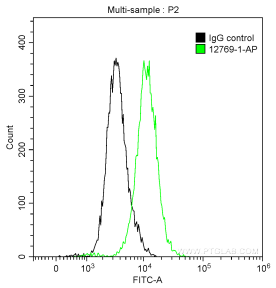
Various lysates were subjected to SDS PAGE followed by western blot with 12769-1-AP (IFITM2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



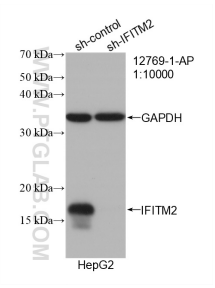
Immunohistochemical analysis of paraffin-embedded human breast cancer slide using 12769-1-AP (IFITM2 Antibody) at dilution of 1:50.



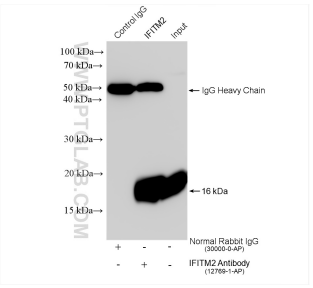
Immunofluorescent analysis of HepG2 cells using 12769-1-AP (IFITM2 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.



1X10^6 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.