

For Research Use Only

IFITM2 Polyclonal antibody

Catalog Number: 12769-1-AP

Featured Product

41 Publications



Basic Information

Catalog Number:

12769-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

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:

15-17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse

Cited Species:

human, mouse, pig

Positive Controls:

WB : A549 cells, HepG2 cells, SKOV-3 cells, MCF-7 cells

IP : HepG2 cells,

IHC : human breast cancer tissue, mouse brain tissue

IF/ICC : HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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

***** 20ul sizes contain 0.1%BSA**

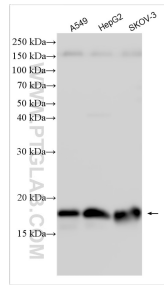
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

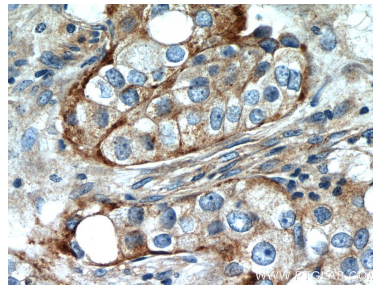
E: proteintech@ptglab.com
W: ptglab.com

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

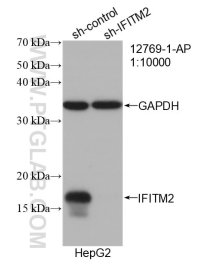
Selected Validation Data



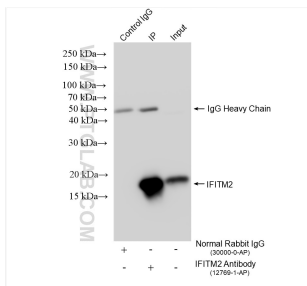
Various lysates were subjected to SDS PAGE followed by western blot with 12769-1-AP (IFITM2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



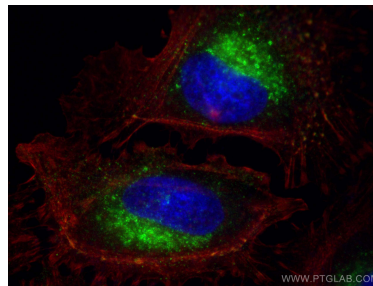
Immunohistochemical analysis of paraffin-embedded human breast cancer slide using 12769-1-AP (IFITM2 Antibody) at dilution of 1:50.



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 1:3000) with HepG2 cells lysate 1000 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using IFITM2 antibody (12769-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).