For Research Use Only

IFITM3 Polyclonal antibody

Catalog Number:11714-1-AP Featured Product 142 Publications

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Basic Information

Catalog Number:
11714-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2285

GenBank Accession Number:
BC006794

GeneID (NCBI):
10410

UNIPROT ID:
Q01628

Full Name:
interferon induced transmembrane protein 3 (1-8U)

Calculated MW:
133 aa, 15 kDa

Observed MW:
14 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:2000-1:8000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human

Cited Species:
human, mouse, rat, pig, canine, chicken, goat, african green monkey

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 : HeLa cells, HepG2 cells, LNCaP cells, THP-1 cells

IP : HepG2 cells,

IHC : human skin cancer tissue,

IF/ICC : HeLa cells,

Background Information

IFITM3, also named as interferon-inducible protein 1-8U, belongs to the CD225 family. It is 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. IFITM3 is identified as interferon-induced cellular proteins that restrict infections by retroviruses and filoviruses and of influenza virus and flaviviruses, respectively. IFITM3, the most potent antiviral IFITM, was found to inhibit an uncharacterized early infectious event after VSV endocytosis, but before primary transcription of its viral genome. IFITM proteins are viral restriction factors that can inhibit infection mediated by the influenza A virus (IAV) hemagglutinin (HA) protein. They differentially restrict the entry of a broad range of enveloped viruses, and modulate cellular tropism independently of viral receptor expression. Catalog#11714-1-AP is a rabbit polyclonal antibody raised against the full-length of human IFITM3.

Notable Publications

Author	Pubmed ID	Journal	Application
Angke Zhang	32999030	J Virol	WB,IF
Meng Yu	25265877	Med Microbiol Immunol	IHC
Shunhua Long	36178477	Viral Immunol	WB,IF

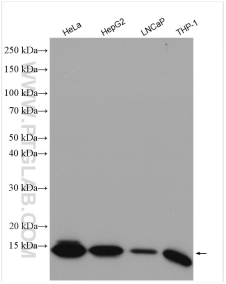
Storage

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

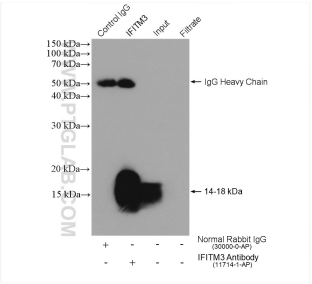
***** 20ul sizes contain 0.1%BSA**

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

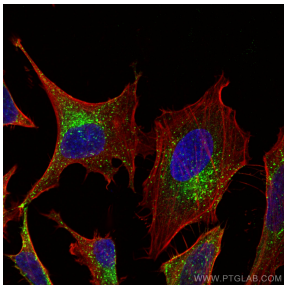
Selected Validation Data



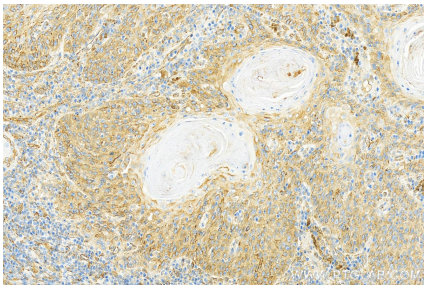
Various lysates were subjected to SDS PAGE followed by western blot with 11714-1-AP (IFITM3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-IFITM3 (IP:11714-1-AP, 4ug; Detection:11714-1-AP 1:4000) with HepG2 cells lysate 960 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using IFITM3 antibody (11714-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 11714-1-AP (IFITM3 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).