

For Research Use Only

# IFITM3 Polyclonal antibody

Catalog Number: 11714-1-AP

Featured Product

81 Publications



## Basic Information

### Catalog Number:

11714-1-AP

### Size:

150ul, Concentration: 400 µg/ml by Nanodrop and 393 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2285

### GenBank Accession Number:

BC006794

### GeneID (NCBI):

10410

### 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 1:2000-1:10000

IP 0.5-4.0 ug for IP and 1:500-1:3000 for WB

IHC 1:50-1:500

IF 1:50-1:500

## Applications

### Tested Applications:

FC, IF, IHC, IP, WB, ELISA

### Cited Applications:

Blocking assay, FC, IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

African green monkey, goat, human, mouse, pig, rat

**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, mouse colon tissue, HepG2 cells

IP: HeLa cells,

IHC: human lung cancer tissue, human colon cancer tissue

IF: 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
Galina Popova	34536354	Cell Stem Cell	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

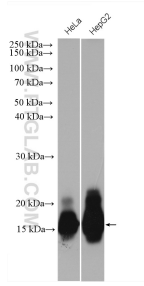
For technical support and original validation data for this product please contact:

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

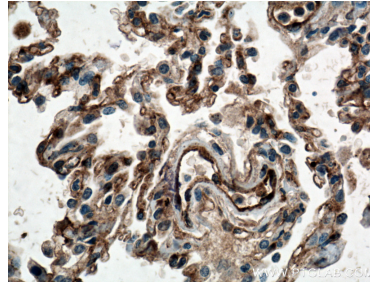
E: proteintech@ptglab.com  
W: ptglab.com

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

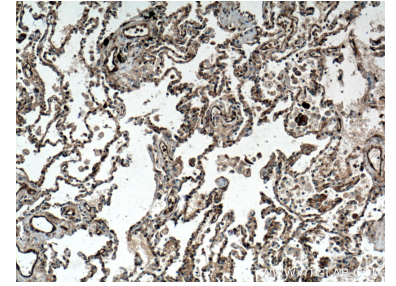
## Selected Validation Data



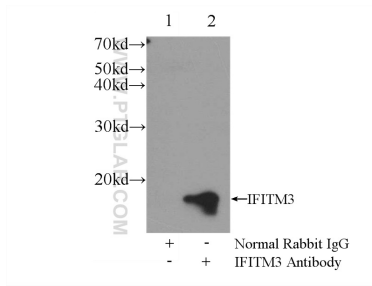
HeLa cells were subjected to SDS PAGE followed by western blot with 11714-1-AP (IFITM3 antibody) at dilution of 1:5000 incubated at 4 degree celsius over night.



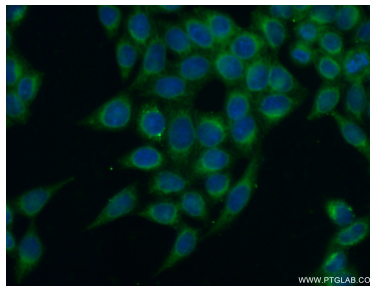
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11714-1-AP (IFITM3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



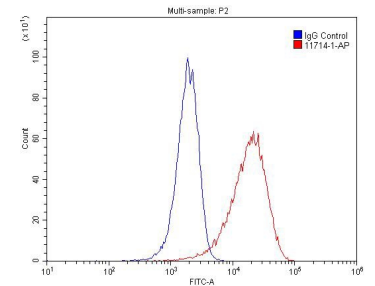
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11714-1-AP (IFITM3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-IFITM3 (IP:11714-1-AP, 3ug; Detection:11714-1-AP 1:1500) with HeLa cells lysate 2400ug.



Immunofluorescent analysis of (-20 Ethanol) fixed HeLa cells using 11714-1-AP (IFITM3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug IFITM3 antibody (11714-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.