

For Research Use Only

IFITM2/3 Monoclonal antibody

Catalog Number: 66081-1-Ig

Featured Product

15 Publications



Basic Information

Catalog Number: 66081-1-Ig	GenBank Accession Number: BC070243	Purification Method: Protein A purification
Size: 150ul, Concentration: 2100 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10410	CloneNo.: 2E8D12
Source: Mouse	Full Name: interferon induced transmembrane protein 3 (1-8U)	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:50-1:500
Isotype: IgG1	Observed MW: 15-20 kDa	
Immunogen Catalog Number: AG17863		

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

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

Species Specificity:
human

Cited Species:
human

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: U2OS cells, THP-1 cells, HL-60 cells, K-562 cells, Jurkat cells, MCF-7 cells, HeLa cells, LNCaP cells, A549 cells

IHC: human liver cancer tissue,

IF: U2OS 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. This antibody recognizes both IFITM2 and IFITM3.

Notable Publications

Author	Pubmed ID	Journal	Application
Alex A Compton	27601221	EMBO Rep	WB
Julian Buchrieser	33051876	EMBO J	IF, FC
Guoli Shi	30301809	Proc Natl Acad Sci U S A	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

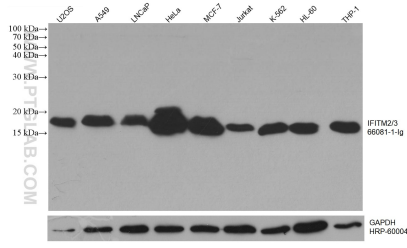
For technical support and original validation data for this product please contact:

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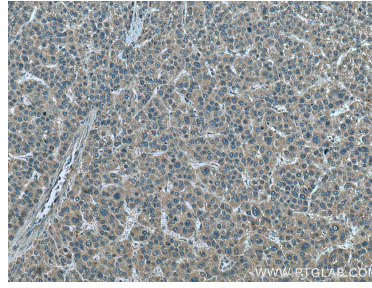
E: proteintech@ptglab.com
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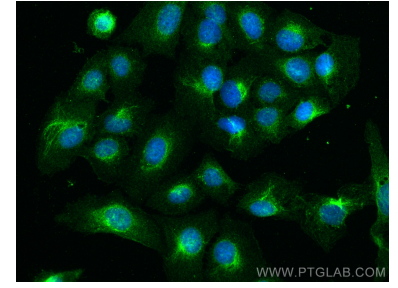
Selected Validation Data



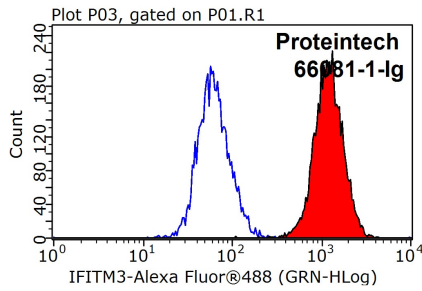
Various lysates were subjected to SDS PAGE followed by western blot with 66081-1-Ig (IFITM2/3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66081-1-Ig (IFITM2/3 antibody) at dilution of 1:1000 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using IFITM2/3 antibody (66081-1-Ig, Clone: 2E8D12) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ HeLa cells were stained with 0.2ug IFITM2/3 antibody (66081-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.