

IFITM2/3 Monoclonal antibody

Catalog Number: 66081-1-Ig

Featured Product

18 Publications

Basic Information

Catalog Number:

66081-1-Ig

Concentration:

2100 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17863

GenBank Accession Number:

BC070243

GeneID (NCBI):

10410

Full Name:

interferon induced transmembrane
protein 3 (1-8U)

Observed MW:

15-20 kDa

Purification Method:

Protein G purification

CloneNo.:

2E8D12

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP

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/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. 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
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, pH7.3

Aliquoting is unnecessary for -20°C storage

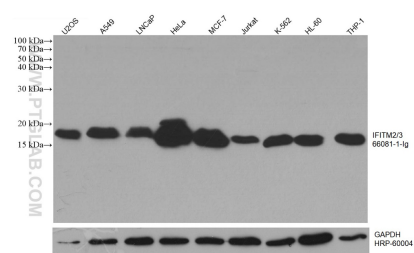
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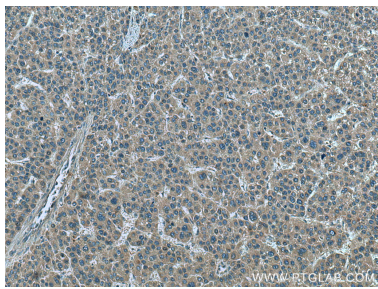
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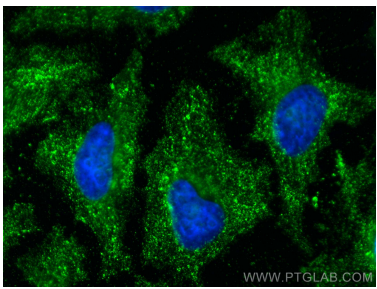
Selected Validation Data



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 (-20°C Methanol) fixed HeLa cells using IFITM2/3 antibody (66081-1-Ig, Clone: 2E8D12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).