For Research Use Only

IFITM1-Specific Monoclonal antibody

Catalog Number:60074-1-Ig Featured Product 67 Publications

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Basic Information

Catalog Number:
60074-1-Ig

Size:
2000 μg/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG2320

GenBank Accession Number:
BC000897

GeneID (NCBI):
8519

UNIPROT ID:
P13164

Full Name:
interferon induced transmembrane protein 1 (9-27)

Calculated MW:
14 kDa

Observed MW:
14-17 kDa

Purification Method:
Protein A purification

CloneNo.:
5B5E2

Recommended Dilutions:
WB 1:20000-1:100000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:1000
IF 1:200-1:800

Applications

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

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

Species Specificity:
human

Cited Species:
human, mouse

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 : TF-1 cells, K-562 cells, human testis tissue, HepG2 cells, HL-60 cells

IP : HepG2 cells,

IHC : human lymphoma tissue,

IF : K-562 cells,

Background Information

IFITM1(interferon induced transmembrane protein), also named DSPA2a and interferon-induced protein 17 (IFI17), belongs to the CD225 family. It has two transmembrane domain and serves as an IFN-induced antiviral protein that mediates cellular innate immunity to at least three major human pathogens, influenza A H1N1 virus, West Nile virus (WNV), and dengue virus , by inhibiting the early steps of replication. 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. 60074-1-Ig is a mouse monoclonal antibody which specifically recognizing IFITM1 but not IFITM2 or IFITM3.

Notable Publications

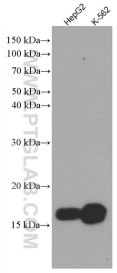
Author	Pubmed ID	Journal	Application
Wing-Yiu Jason Lee	30266929	Sci Rep	WB
Florian Wrensch	25256397	Viruses	WB
Michael J McFadden	34537236	J Mol Biol	WB

Storage

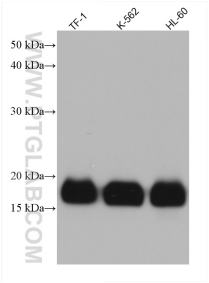
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

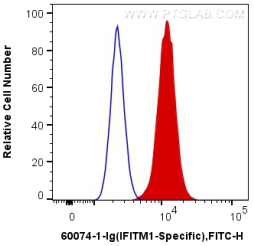
Selected Validation Data



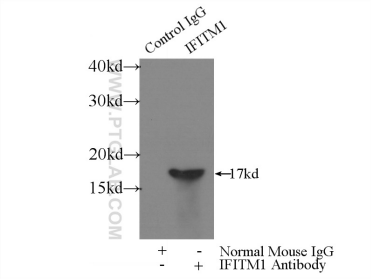
Various lysates were subjected to SDS PAGE followed by western blot with 60074-1-Ig (IFITM1-Specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



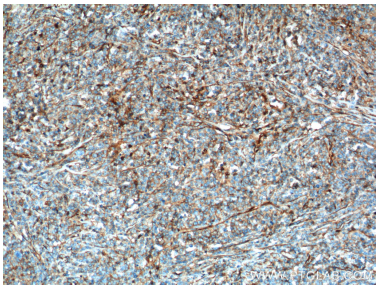
TF-1 cells were subjected to SDS PAGE followed by western blot with 60074-1-Ig (IFITM1-Specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



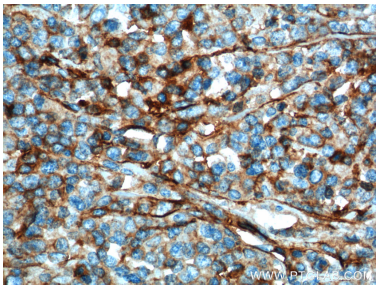
1X10^6 U2OS cells were intracellularly stained with 0.4 ug Anti-Human IFITM1-Specific (60074-1-Ig, Clone:5B5E2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



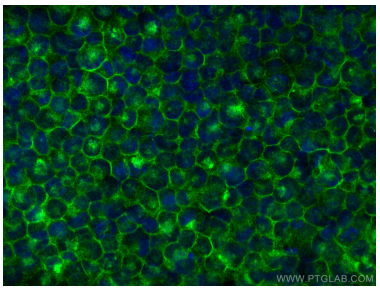
IP result of anti-IFITM1-Specific (IP:60074-1-Ig, 4ug; Detection:60074-1-Ig 1:500) with HepG2 cells lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 60074-1-Ig (IFITM1-Specific Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 60074-1-Ig (IFITM1-Specific Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using IFITM1-Specific antibody (60074-1-Ig, Clone: 5B5E2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).