

For Research Use Only

# IFITM1-Specific Monoclonal antibody



Catalog Number: 60074-1-Ig

Featured Product

51 Publications

## Basic Information

<b>Catalog Number:</b> 60074-1-Ig	<b>GenBank Accession Number:</b> BC000897	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8519	<b>CloneNo.:</b> 5B5E2
<b>Source:</b> Mouse	<b>Full Name:</b> interferon induced transmembrane protein 1 (9-27)	<b>Recommended Dilutions:</b> WB 1:20000-1:100000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 14 kDa	<b>IHC 1:200-1:1000</b>
<b>Immunogen Catalog Number:</b> AG2320	<b>Observed MW:</b> 14 kDa, 17 kDa	

## Applications

**Tested Applications:**  
FC, 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, HepG2 cells, human testis tissue

**IP :** HepG2 cells,

**IHC :** human lymphoma tissue,

## 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

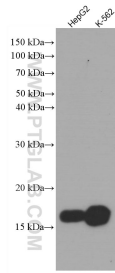
For technical support and original validation data for this product please contact:

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

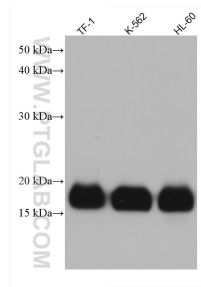
E: proteintech@ptglab.com  
W: ptglab.com

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

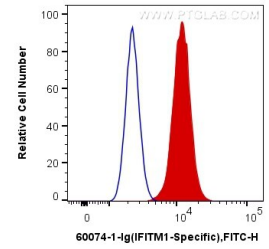
## Selected Validation Data



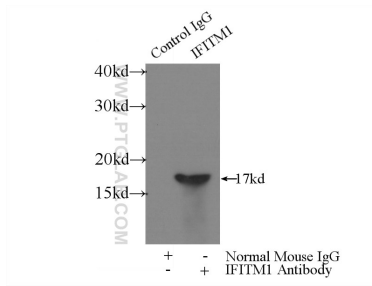
Various lysates were subjected to SDS PAGE followed by western blot with 60074-1-Ig (IFITM1-Specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



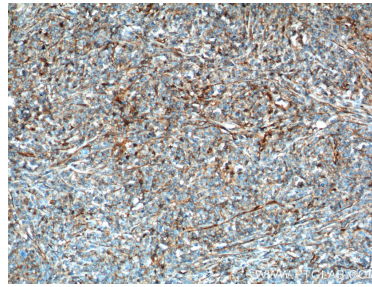
TF-1 cells were subjected to SDS PAGE followed by western blot with 60074-1-Ig (IFITM1-Specific antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



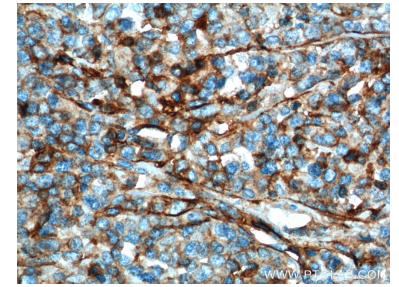
$1 \times 10^6$  U2OS cells were intracellularly stained with 0.4 ug Anti-Human IFITM1-Specific (60074-1-Ig, Clone:5B5E2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry 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).