

For Research Use Only

# IFITM3 Recombinant antibody

Catalog Number: 81135-3-RR



## Basic Information

<b>Catalog Number:</b> 81135-3-RR	<b>GenBank Accession Number:</b> BC006794	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 10410	<b>CloneNo.:</b> 242056C9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q01628	<b>Recommended Dilutions:</b> WB 1:1000-1:10000 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> interferon induced transmembrane protein 3 (1-8U)	
<b>Immunogen Catalog Number:</b> AG2285	<b>Calculated MW:</b> 133 aa, 15 kDa	
	<b>Observed MW:</b> 15-20 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, HepG2 cells, THP-1 cells <b>IF/ICC :</b> HepG2 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.

## 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:

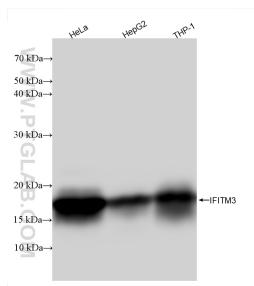
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

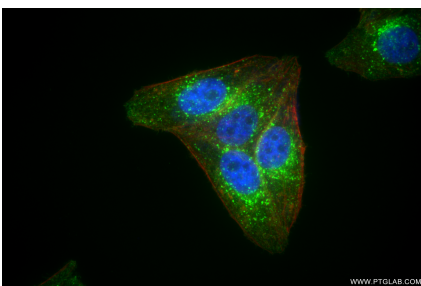
W: [ptgcn.com](http://ptgcn.com)

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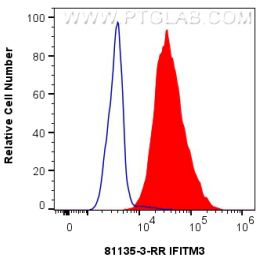
## Selected Validation Data



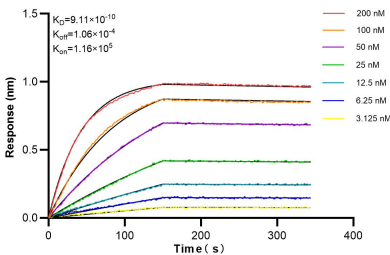
Various lysates were subjected to SDS PAGE followed by western blot with 81135-3-RR (IFITM3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using IFITM3 antibody (81135-3-RR, Clone: 242056C9) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug IFITM3 Recombinant antibody (81135-3-RR, Clone:242056C9) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 81135-3-RR against Human IFITM3 were performed. The affinity constant is 0.911 nM.