For Research Use Only

IFITM3 Recombinant antibody, PBS Only

Catalog Number:81135-3-PBS

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Basic Information

Catalog Number:
81135-3-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2285

GenBank Accession Number:
BC006794

GeneID (NCBI):
10410

UNIPROT ID:
Q01628

Full Name:
interferon induced transmembrane protein 3 (1-8U)

Calculated MW:
133 aa, 15 kDa

Observed MW:
15-20 kDa

Purification Method:
Protein A purification

CloneNo.:
242056C9

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human

Background Information

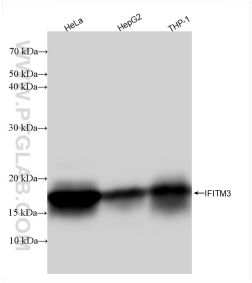
IFITM3, also named as interferon-inducible protein 1-8U, belongs to the CD225 family. It is IFN-induced antiviral protein that mediates cellular innate immunity to at least three major human pathogens, namely influenza A H1N1 virus, West Nile virus (WNV), and dengue virus, by inhibiting the early steps 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

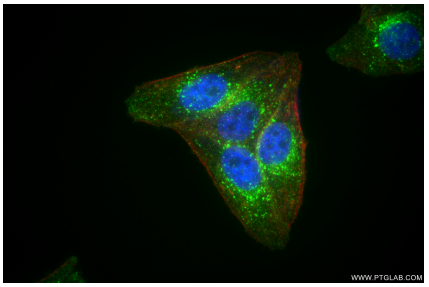
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

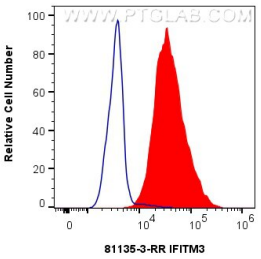
Selected Validation Data



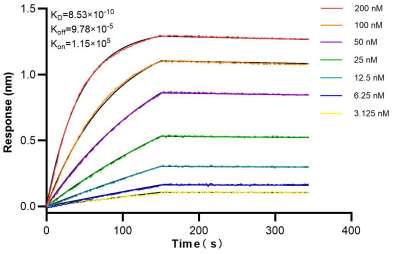
Various lysates were subjected to SDS PAGE followed by western blot with 81135-3-RR (IFITM3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81135-3-PBS in a different storage buffer formulation.



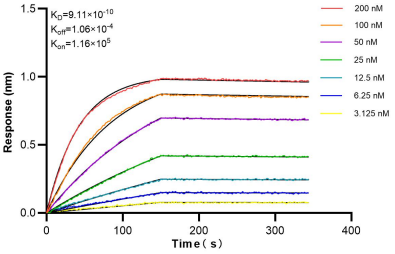
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using IFITM3 antibody (81135-3-RR, Clone: 242056C9) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 81135-3-PBS in a different storage buffer formulation.



1x10^6 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). This data was developed using the same antibody clone with 81135-3-PBS in a



Biolayer interferometry (BLI) kinetic assays of 81135-3-RR against Human IFITM3 were performed. The affinity constant is 0.853 nM.



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