

For Research Use Only

CoraLite® Plus 488-conjugated IFITM3 Polyclonal antibody

Catalog Number: CL488-11714

Featured Product



Basic Information

Catalog Number:

CL488-11714

Concentration:

1000 ug/ml

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:

14 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.20 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : 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. Catalog# 11714-1-AP is a rabbit polyclonal antibody raised against the full-length of human IFITM3.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

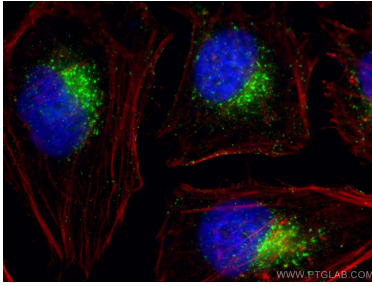
T: 4006900926

E: Proteintech-CN@ptglab.com

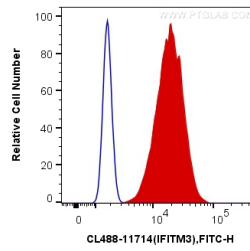
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 IFITM3 antibody (CL488-11714) at dilution of 1:200, CL594-phalloidin (red).



1X10⁶ HeLa cells were intracellularly stained with 0.2 ug CoraLite® Plus 488 Anti-Human IFITM3 (CL488-11714) (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).