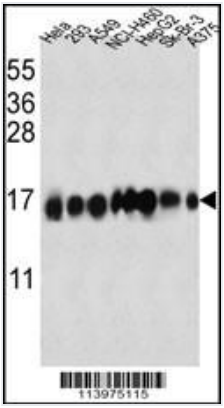
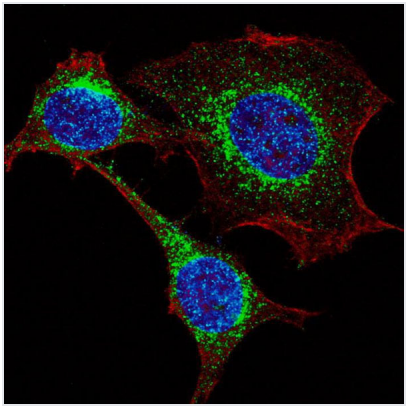
Fragilis (IFITM3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Fragilis (IFITM3), Polyclonal Antibody
Full Product Name	Fragilis, NT (Interferon-induced Transmembrane Protein 3, Interferon-inducible Protein 1-8U, IFITM3) (MaxLight 490)
Product Gene Name	anti-IFITM3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human IFITM3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	14,632 Da
OMIM	gene 614680
3D Structure	ModBase 3D Structure for Q01628
Immunogen	Synthetic peptide selected from the N-terminal region of human IFITM3 (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-IFITM3 antibody	Antibodies; Interferon
Applications Tested/Suitable for anti-IFITM3 antibody	Immunofluorescence (IF), FLISA, Western Blot (WB)
Application Notes for anti-IFITM3 antibody	IF: 1:100-1:500 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-IFITM3 antibody	MBS6476836 is an antibody targeting IFITM3. Also known as Fragilis, NT (Interferon-induced Transmembrane Protein 3, Interferon-inducible Protein 1-8U, IFITM3) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-IFITM3 antibody	1. Tanaka, S.S., Dev. Cell 9 (6), 745-756 (2005).
Other Notes	Small volumes of anti-IFITM3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-IFITM3 antibody
IFITM3 Antibody (N-term) western blot analysis in Hela,293,A549,NCI-H460,HepG2,Sk-Br-3,A375 cell line lysates (35ug/lane).This demonstrates the IFITM3 antibody detected the IFITM3 protein (arrow).



Immunofluorescence (IF) of anti-IFITM3 antibody
Fluorescent confocal image of HeLa cells stained with IFITM3 (N-term) antibody. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with Fragilis (IFITM3) (N-term) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 3 min). Note the highly specific localization of the IFITM3 immunoreactivity to the Golgi.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFITM3. It may not necessarily be applicable to this product.

NCBI GI #	148612842
NCBI GeneID	10410
NCBI Accession #	NP_066362
UniProt Primary Accession #	Q01628
UniProt Secondary Accession #	Q53Y76; Q96HK8; Q96J15
UniProt Related Accession #	Q01628
GenBank Nucleotide #	NM_021034
NCBI Official Full Name	interferon-induced transmembrane protein 3
NCBI Official Synonym Full Names	interferon induced transmembrane protein 3
NCBI Official Symbol	IFITM3
NCBI Official Synonym Symbols	1-8U; IP15; DSPA2b
UniProt Protein Name	Interferon-induced transmembrane protein 3
UniProt Synonym Protein Names	Dispanin subfamily A member 2b; DSPA2b; Interferon-inducible protein 1-8U
Protein Family	Interferon-induced transmembrane protein
UniProt Gene Name	IFITM3
UniProt Synonym Gene Names	DSPA2b
UniProt Entry Name	IFM3_HUMAN
NCBI Protein Information	interferon-induced transmembrane protein 3; dispanin subfamily A member 2b; interferon-inducible protein 1-8U

UniProt Comments for IFITM3	IFITM3: 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 (WNV), by inhibiting the early step(s) of replication. Interacts with SPP1; the interaction reduces OPN expression. By IFN-alpha and IFNG/IFN-gamma. Belongs to the CD225/Dispanin family. Protein type: Membrane protein, integral; Cell surface Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: lysosomal membrane; late endosome membrane; integral to membrane; plasma membrane Molecular Function: protein binding Biological Process: negative regulation of viral transcription; negative regulation of viral genome replication; negative regulation of virion penetration into host cell; response to virus; cytokine and chemokine mediated signaling pathway; immune response; defense response to virus Disease: Influenza, Severe, Susceptibility To
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