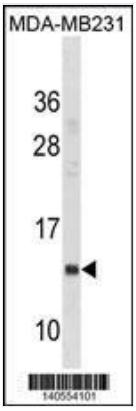
IFITM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IFITM1, Polyclonal Antibody
Full Product Name	IFITM1, ID (IFITM1, CD225, IFI17, Interferon-induced transmembrane protein 1, Dispanin subfamily A member 2a, Interferon-induced protein 17, Interferon-inducible protein 9-27, Leu-13 antigen, CD225) (Azide free) (HRP)
Product Gene Name	anti-IFITM1 antibody
Product Synonym Names	IFITM1; CD225; IFI17; Interferon-induced transmembrane protein 1; Dispanin subfamily A member 2a; Interferon-induced protein 17; Interferon-inducible protein 9-27; Leu-13 antigen; CD225
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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	13,964 Da
OMIM	604456
3D Structure	ModBase 3D Structure for P13164
Immunogen	IFITM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-66 amino acids from the Central region of human IFITM1.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-IFITM1 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-IFITM1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-IFITM1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-IFITM1 antibody	IFN-induced antiviral protein that mediate cellular innate immunity to at least three major human pathogens, namely influenza A H1N1 virus, West Nile virus, and dengue virus by inhibiting the early step(s) of replication. Plays a key role in the antiproliferative action of IFN-gamma either by inhibiting the ERK activition or by arresting cell growth in G1 phase in a p53-dependent manner. Implicated in the control of cell growth. Component of a multimeric complex involved in the transduction of antiproliferative and homotypic adhesion signals.
Product References and Citations for anti-IFITM1 antibody	Ma, Y., et al. Oncol. Rep. 23(6):1569-1576(2010). Mosbruger, T.L., et al. J. Infect. Dis. 201(9):1371-1380(2010). Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010): Pan, Z., et al. Neoplasma 57(2):123-128(2010). Brass, A.L., et al. Cell 139(7):1243-1254(2009).

Other Notes	Small volumes of anti-IFITM1 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.
Searchable Terms for IFITM1 purchase	MBS6309281 is an antibody targeting IFITM1. Also known as IFITM1, ID (IFITM1, CD225, IFI17, Interferon-induced transmembrane protein 1, Dispanin subfamily A member 2a, Interferon-induced protein 17, Interferon-inducible protein 9-27, Leu-13 antigen, CD225) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IFITM1 antibody
IFITM1 Antibody (Center) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the IFITM1 antibody detected the IFITM1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFITM1. It may not necessarily be applicable to this product.

NCBI GI #	150010589
NCBI GeneID	8519
NCBI Accession #	NP_003632.3
UniProt Primary Accession #	P13164
UniProt Secondary Accession #	Q15322; Q53XZ0
UniProt Related Accession #	P13164; AAB25699
GenBank Nucleotide #	NM_003641.3
NCBI Official Full Name	interferon-induced transmembrane protein 1
NCBI Official Synonym Full Names	interferon induced transmembrane protein 1
NCBI Official Symbol	IFITM1
NCBI Official Synonym Symbols	9-27; CD225; IFI17; LEU13; DSPA2a
UniProt Protein Name	Interferon-induced transmembrane protein 1
UniProt Synonym Protein Names	Dispanin subfamily A member 2a; DSPA2a; Interferon-induced protein 17; Interferon-inducible protein 9-27; Leu-13 antigen; CD_antigen: CD225
Protein Family	Interferon-induced transmembrane protein
UniProt Gene Name	IFITM1
UniProt Synonym Gene Names	CD225; IFI17; DSPA2a
UniProt Entry Name	IFM1_HUMAN
NCBI Protein Information	interferon-induced transmembrane protein 1; leu-13 antigen; interferon-induced protein 17; dispanin subfamily A member 2a; interferon-inducible protein 9-27

UniProt Comments for IFITM1	IFITM1: IFN-induced antiviral protein which inhibits the entry of viruses to the host cell cytoplasm, permitting endocytosis, but preventing subsequent viral fusion and release of viral contents into the cytosol. Active against multiple viruses, including influenza A virus, SARS coronavirus (SARS-CoV), Marburg virus (MARV), Ebola virus (EBOV), Dengue virus (DNV), West Nile virus (WNV), human immunodeficiency virus type 1 (HIV-1) and hepatitis C virus (HCV). Can inhibit: influenza virus hemagglutinin protein- mediated viral entry, MARV and EBOV GP1,2-mediated viral entry and SARS-CoV S protein-mediated viral entry. Also implicated in cell adhesion and control of cell growth and migration. Plays a key role in the antiproliferative action of IFN-gamma either by inhibiting the ERK activation or by arresting cell growth in G1 phase in a p53-dependent manner. Acts as a positive regulator of osteoblast differentiation. Belongs to the CD225/Dispanin family. Protein type: Cell cycle regulation; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: protein binding; receptor signaling protein activity Biological Process: positive regulation of osteoblast differentiation; negative regulation of cell proliferation; regulation of immune response; ossification; cell surface receptor linked signal transduction; negative regulation of viral genome replication; negative regulation of virion penetration into host cell; cytokine and chemokine mediated signaling pathway; response to virus; defense response to virus; negative regulation of cell migration
Research Articles on IFITM1	**1.** IFITM1 is a potential valuable addition to immunohistochemical panels used in the diagnosis of cellular mesenchymal uterine tumors.
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