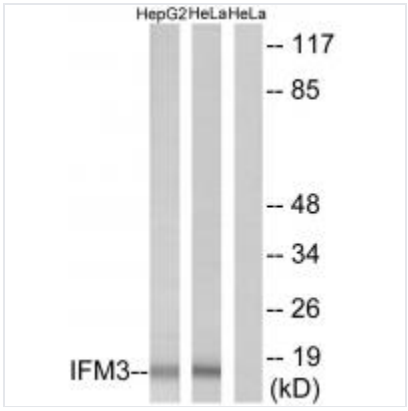
IFM3 Antibody – Rabbit Polyclonal

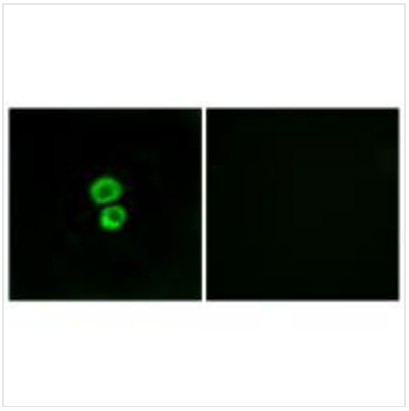
PRODUCT OVERVIEW

Product Name	IFM3, Polyclonal Antibody
Full Product Name	IFM3 Antibody
Product Gene Name	anti-IFM3 antibody
Product Synonym Names	IFM3; INIB; interferon-induced transmembrane protein 3; interferon-inducible protein 1-8U
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total IFM3 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	14,632 Da
OMIM	605579
3D Structure	ModBase 3D Structure for Q01628
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human IFM3.
Target Name	IFM3
Product Categories/Family for anti-IFM3 antibody	Total protein Ab
Applications Tested/Suitable for anti-IFM3 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-IFM3 antibody	Western blotting: 1:500~1:3000 Immunofluorescence: 1:100~1:500
Related Product Information for anti-IFM3 antibody	IFN-induced antiviral protein which disrupts intracellular cholesterol homeostasis. Inhibits the entry of viruses to the host cell cytoplasm by preventing viral fusion with cholesterol depleted endosomes. May inactivate new enveloped viruses which buds out of the infected cell, by letting them go out with a cholesterol depleted membrane. Active against multiple viruses, including influenza A virus, SARS coronavirus (SARS-CoV), Marburg virus (MARV) and Ebola virus (EBOV), Dengue virus (DNV), West Nile virus (WNV), human immunodeficiency virus type 1 (HIV-1) and vesicular stomatitis virus (VSV). Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry, SARS-CoV S protein-mediated viral entry and VSV G protein-mediated viral entry. Plays a critical role in the structural stability and function of vacuolar ATPase (v-ATPase). Establishes physical contact with the v-ATPase of endosomes which is critical for proper clathrin localization and is also required for the function of the v-ATPase to lower the pH in phagocytic endosomes thus establishing an antiviral state.Lewin A.R., Eur. J. Biochem. 199:417-423(1991).The MGC Project Team; Genome Res. 14:2121-2127(2004).

Other Notes	Small volumes of anti-IFM3 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 IFM3 purchase	MBS9409144 is an antibody targeting IFM3. Also known as IFM3 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IFM3 antibody
Western blot analysis of extracts from HepG2 cells and HeLa cells, using IFM3 antibody.



Immunofluorescence (IF) of anti-IFM3 antibody
Immunofluorescence analysis of MCF-7 cells, using IFM3 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFM3. It may not necessarily be applicable to this product.

NCBI GI #	148612842
NCBI GeneID	10410
NCBI Accession #	NP_066362.2
UniProt Primary Accession #	Q01628
UniProt Secondary Accession #	Q53Y76; Q96HK8; Q96J15
UniProt Related Accession #	Q01628
GenBank Nucleotide #	NM_021034.2
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
UniProt Gene Name	IFITM3
UniProt Synonym Gene Names	DSPA2b
UniProt Entry Name	IFM3_HUMAN
NCBI Protein Information	interferon-induced transmembrane protein 3
NCBI Summary for IFM3	The protein encoded by this gene is an interferon-induced membrane protein that helps confer immunity to influenza A H1N1 virus, West Nile virus, and dengue virus. Two transcript variants, only one of them protein-coding, have been found for this gene. Another variant encoding an N-terminally truncated isoform has been reported, but the full-length nature of this variant has not been determined. [provided by RefSeq, May 2012]

UniProt Comments for IFM3	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: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: late endosome membrane; lysosomal membrane; plasma membrane; integral to 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
Research Articles on IFM3	**1.** Authors suggest that IFITM3 adopts multiple membrane topologies involving at least one intramembrane domain in its antivirally active conformation.
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