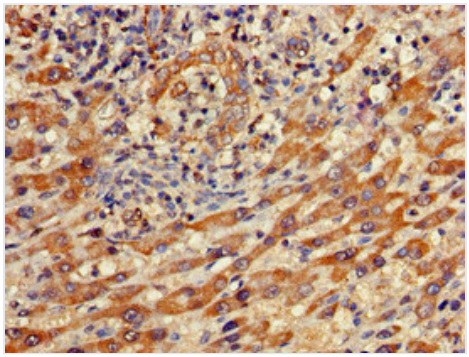
IFIT1 Antibody – Rabbit Polyclonal

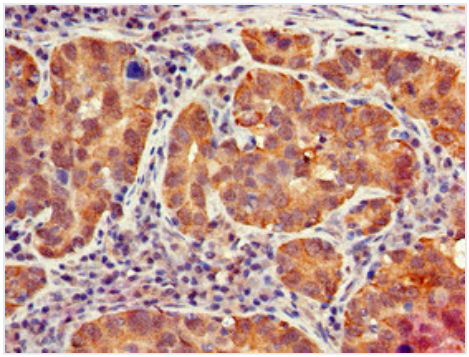
PRODUCT OVERVIEW

Product Name	IFIT1, Polyclonal Antibody
Full Product Name	IFIT1 Antibody
Product Gene Name	anti-IFIT1 antibody
Product Synonym Names	Interferon-induced protein with tetratricopeptide repeats 1; IFIT-1; Interferon-induced 56 kDa protein; IFI-56K; P56; IFIT1; G10P1; IFI56; IFNAI1; ISG56
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: IFIT1 (MBS7048432) HRP Conjugated Antibody: IFIT1 (MBS7048433)
Matching Pairs	Unconjugated Antibody: IFIT1 (MBS7048432) FITC Conjugated Antibody: IFIT1 (MBS7048434)
Matching Pairs	Unconjugated Antibody: IFIT1 (MBS7048432) Biotin Conjugated Antibody: IFIT1 (MBS7048435)
Molecular Weight	51,713 Da
OMIM	X03557 mRNA
3D Structure	ModBase 3D Structure for P09914
Immunogen	Recombinant Human Interferon-induced protein with tetratricopeptide repeats 1 protein (1-181AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-82946
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IFIT1 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-IFIT1 antibody	IHC: 1: 20-1: 200 IF: 1: 50-1: 200

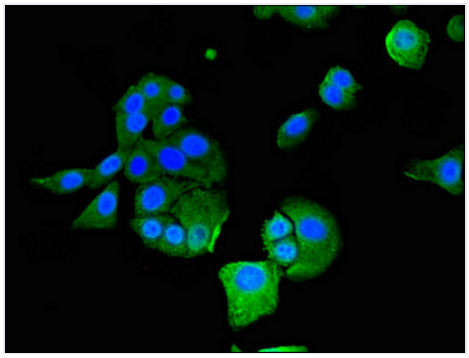
Related Product Information for anti-IFIT1 antibody	Interferon-induced antiviral RNA-binding protein that specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded RNAs and inhibiting expression of viral messenger RNAs. Single-stranded PPP-RNAs, which lack 2'-O-methylation of the 5' cap and bear a 5'-triphosphate group instead, are specific from viruses, providing a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Directly binds PPP-RNA in a non-sequence-specific manner. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism). Exhibits antiviral activity against several viruses including human papilloma and hepatitis C viruses.
Other Notes	Small volumes of anti-IFIT1 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 IFIT1 purchase	MBS7048432 is an antibody targeting IFIT1. Also known as IFIT1 Antibody. Reactive in Human. Host: Rabbit.



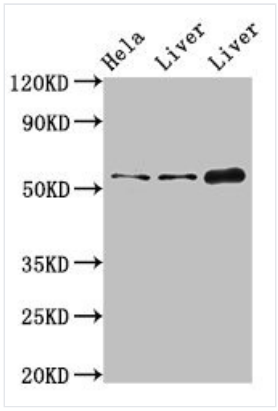
Immunohistochemistry (IHC) of anti-IFIT1 antibody
Immunohistochemistry of paraffin-embedded human liver cancer using MBS7048432 at dilution of 1:100



Immunohistochemistry (IHC) of anti-IFIT1 antibody
Immunohistochemistry of paraffin-embedded human pancreatic cancer using MBS7048432 at dilution of 1:100



Immunohistochemistry (IHC) of anti-IFIT1 antibody
Immunofluorescent analysis of HepG2 cells using MBS7048432 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Western Blot (WB) of anti-IFIT1 antibody
Western BlotPositive WB detected in: Hela whole cell lysate,Rat liver tissue,Mouse liver tissueAll lanes: IFIT1 antibody at 4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 56,52 KDaObserved band size: 56 KDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFIT1. It may not necessarily be applicable to this product.

NCBI GI #	400286381
NCBI GeneID	3434
NCBI Accession #	NP_001257857.1
UniProt Primary Accession #	P09914
UniProt Secondary Accession #	Q5T7J1; Q96QM5; B3KS50; D3DR31
UniProt Related Accession #	P09914

GenBank Nucleotide #	NM_001270928.1
NCBI Official Full Name	interferon-induced protein with tetratricopeptide repeats 1 isoform 3
NCBI Official Synonym Full Names	interferon induced protein with tetratricopeptide repeats 1
NCBI Official Symbol	IFIT1
NCBI Official Synonym Symbols	C56; P56; G10P1; IFI56; ISG56; IFI-56; IFIT-1; IFNAI1; RNM561; IFI-56K
UniProt Protein Name	Interferon-induced protein with tetratricopeptide repeats 1
UniProt Synonym Protein Names	Interferon-induced 56 kDa protein; IFI-56K; P56
Protein Family	Interferon-induced protein with tetratricopeptide repeats
UniProt Gene Name	IFIT1
UniProt Synonym Gene Names	G10P1; IFI56; IFNAI1; ISG56; IFIT-1; IFI-56K; P56
UniProt Entry Name	IFIT1_HUMAN
NCBI Protein Information	interferon-induced protein with tetratricopeptide repeats 1
NCBI Summary for IFIT1	This gene encodes a protein containing tetratricopeptide repeats that was originally identified as induced upon treatment with interferon. The encoded protein may inhibit viral replication and translational initiation. This gene is located in a cluster on chromosome 10 with five other closely related genes. There is a pseudogene for this gene on chromosome 13. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Aug 2012]
UniProt Comments for IFIT1	IFIT1: IFN-induced antiviral protein which inhibits expression of viral messenger RNAs lacking 2'-O-methylation of the 5' cap. The ribose 2'-O-methylation would provide a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O- methylation (cap snatching mechanism). Exhibits antiviral activity against several viruses including human papilloma and hepatitis C viruses. Belongs to the IFIT family. Chromosomal Location of Human Ortholog: 10q23.31 Cellular Component: cytoplasm; cytosol Molecular Function: protein binding; RNA binding Biological Process: intracellular transport of viral proteins in host cell; negative regulation of defense response to virus by host; negative regulation of helicase activity; negative regulation of protein binding; negative regulation of viral genome replication; positive regulation of viral genome replication; response to virus
Research Articles on IFIT1	**1.** there is a positive feedback loop between phosphorylated STAT1 and ISG56, ISG54 or ISG60.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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