IFIT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IFIT1, Polyclonal Antibody
Full Product Name	IFIT1 Polyclonal Antibody FITC Conjugated
Product Gene Name	anti-IFIT1 antibody
Product Synonym Names	IFIT1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M TBS (pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Purity/Purification	affinity purified by Protein A
Preparation and Storage	Store at -20 degree C for one year. Avoid repeated freeze/thaw cycles. Shipped at 4 degree C.
Molecular Weight	55,360 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (91152303..91166244). Location: 10q23.31
OMIM	147690
3D Structure	ModBase 3D Structure for P09914
Conjugation	FITC
Immunogen Type	201-300/478
Product Categories/Family for anti-IFIT1 antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-IFIT1 antibody	Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-IFIT1 antibody	ICC: 1:50-200 IF: 1:50-200
Related Product Information for anti-IFIT1 antibody	MBS9462940 is an antibody targeting IFIT1. Also known as IFIT1 Polyclonal Antibody FITC Conjugated. Reactive in Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	116534937
NCBI GeneID	3434
NCBI Accession #	NP_001539.3
UniProt Primary Accession #	P09914

UniProt Secondary Accession #	Q5T7J1; Q96QM5
UniProt Related Accession #	P09914
GenBank Nucleotide #	NM_001548.4
NCBI Official Full Name	interferon-induced protein with tetratricopeptide repeats 1 isoform 1
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
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; interferon-inducible mRNA 561; interferon-induced 56 kDa protein; interferon, alpha-inducible protein (MW 56kD)
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 helicase activity; positive regulation of viral genome replication; negative regulation of viral genome replication; cytokine and chemokine mediated signaling pathway; response to virus; negative regulation of defense response to virus by host; negative regulation of protein binding; defense response to virus
Research Articles on IFIT1	**1.** Data suggested that PIV5 mRNAs are methylated at the 2'-hydroxyl group and that ISG56/IFIT1 inhibits the translation of PIV5 mRNA by some unrecognized mechanism. Also ISG56/IFIT1 is primarily responsible for the IFN-induced inhibition of PIV5.
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