IFIT1 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	IFIT1, Blocking Peptide
Full Product Name	IFIT1 Blocking Peptide
Product Gene Name	IFIT1 blocking peptide
Product Synonym Names	G10P1; IFI56; IFNAI1; ISG56; Interferon-induced protein with tetratricopeptide repeats 1; IFIT-1; Interferon-induced 56 kDa protein; IFI-56K; P56
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Store at -20 degree C for one year.
Molecular Weight	55,360 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (91152303..91166244). Location: 10q23.31
OMIM	147690
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Applications Tested/Suitable for IFIT1 blocking peptide	Blocking (BL)
Related Product Information for IFIT1 blocking peptide	MBS8309264 is a blocking peptide targeting IFIT1. Reactive in Human, Mouse, Rat, Monkey. Host: Synthetic. The peptide is used to block Anti-IFIT1 Antibody reactivity.
Other Notes	Small volumes of IFIT1 blocking peptide 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 #	Q64282
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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