IMMT Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	IMMT, Blocking Peptide
Full Product Name	IMMT Antibody (C-term) Blocking Peptide
Product Gene Name	IMMT blocking peptide
Product Synonym Gene Name	HMP; MIC60; MINOS2
Product Synonym Names	MICOS complex subunit MIC60; Cell proliferation-inducing gene 4/52 protein; Mitochondrial inner membrane protein; Mitofilin; p87/89; IMMT; HMP; MIC60; MINOS2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human IMMT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	IMMT peptide (MBS9224955) is used for blocking the activity of IMMT antibody (MBS9200877)
Molecular Weight	83,549 Da
OMIM	600378
Cellular Location	Mitochondrion inner membrane; Single-pass membrane protein
Related Product Information for IMMT blocking peptide	Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane.
Other Notes	Small volumes of IMMT 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.
Searchable Terms for IMMT purchase	MBS9224955 is a blocking peptide targeting IMMT. Also known as IMMT Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	154354964
NCBI GeneID	10989
NCBI Accession #	NP_006830
UniProt Primary Accession #	Q16891
UniProt Secondary Accession #	Q14539; Q15092; Q68D41; Q69HW5; Q6IBL0; Q7Z3X1; Q8TAJ5; Q9P0V2; B1H0U5; B2R5N6
UniProt Related Accession #	Q16891
GenBank Nucleotide #	NM_006839.2
NCBI Official Full Name	MICOS complex subunit MIC60 isoform 1
NCBI Official Synonym Full Names	inner membrane mitochondrial protein

NCBI Official Symbol	IMMT
NCBI Official Synonym Symbols	HMP; P87; P89; PIG4; Mic60; PIG52; MINOS2; P87/89
UniProt Protein Name	MICOS complex subunit MIC60
UniProt Synonym Protein Names	Cell proliferation-inducing gene 4/52 protein; Mitochondrial inner membrane protein; Mitofilin; p87/89
UniProt Gene Name	IMMT
UniProt Synonym Gene Names	HMP; MIC60; MINOS2
UniProt Entry Name	MIC60_HUMAN
NCBI Protein Information	MICOS complex subunit MIC60
UniProt Comments for IMMT	IMMT: 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Mitochondrial Chromosomal Location of Human Ortholog: 2p11.2|2 Cellular Component: membrane; mitochondrial inner membrane; mitochondrion Molecular Function: protein binding Biological Process: cristae formation
Research Articles on IMMT	**1.** Mic60 interacted with mtDNA and was involved in the architecture of mtDNA D-loop region. Taken together, our findings reveal a previously unrecognized important role of Mic60 in mtDNA transcription.
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