MTMR1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	MTMR1, Blocking Peptide
Full Product Name	MTMR1 Peptide
Product Gene Name	MTMR1 blocking peptide
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	MTMR1 peptide (MBS3231183) is used for blocking the activity of MTMR1 antibody (MBS3206218)
Molecular Weight	73kDa
OMIM	300171
Product Categories/Family for MTMR1 blocking peptide	Peptide
Applications Tested/Suitable for MTMR1 blocking peptide	Western Blot (WB)
Related Product Information for MTMR1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-MTMR1 antibody made Target Description: MTMR1 is a member of the myotubularin related family of proteins. Members of this family contain the consensus sequence for the active site of protein tyrosine phosphatases.This gene encodes a member of the myotubularin related family of proteins. Members of this family contain the consensus sequence for the active site of protein tyrosine phosphatases. Alternatively spliced variants have been described but their biological validity has not been determined.
Other Notes	Small volumes of MTMR1 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 MTMR1 purchase	MBS3231183 is a blocking peptide targeting MTMR1. Also known as MTMR1 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTMR1. It may not necessarily be applicable to this product.

NCBI GI #	28872761
NCBI GeneID	8776
NCBI Accession #	NP_003819
UniProt Primary Accession #	Q13613
UniProt Related Accession #	Q13613
GenBank Nucleotide #	NM_003828
NCBI Official Full Name	myotubularin-related protein 1 isoform 2
NCBI Official Synonym Full Names	myotubularin related protein 1
NCBI Official Symbol	MTMR1
UniProt Protein Name	Myotubularin-related protein 1

UniProt Synonym Protein Names	Phosphatidylinositol-3-phosphate phosphatase
UniProt Gene Name	MTMR1
UniProt Entry Name	MTMR1_HUMAN
NCBI Protein Information	myotubularin-related protein 1
NCBI Summary for MTMR1	This gene encodes a member of the myotubularin related family of proteins. Members of this family contain the consensus sequence for the active site of protein tyrosine phosphatases. Alternatively spliced variants have been described but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for MTMR1	MTMR1: Lipid phosphatase that acts on phosphatidylinositol 3- phosphate and phosphatidylinositol (3,5)-bisphosphate. Belongs to the protein-tyrosine phosphatase family. Non-receptor class myotubularin subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.3.64; Carbohydrate Metabolism - fructose and mannose; Protein phosphatase, tyrosine (non-receptor); Phosphatase, lipid; Motility/polarity/chemotaxis; Cofactor and Vitamin Metabolism - thiamine; Cofactor and Vitamin Metabolism - riboflavin Chromosomal Location of Human Ortholog: Xq28 Cellular Component: cytoplasm; plasma membrane; cytosol Molecular Function: phosphatidylinositol-3-phosphatase activity; protein tyrosine phosphatase activity Biological Process: phospholipid metabolic process; phosphatidylinositol biosynthetic process; phosphoinositide dephosphorylation
Research Articles on MTMR1	**1.** an aberrant MTMR1 expression and signs of altered myofiber maturation were documented in both DM1 and in DM2 muscle tissues.
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