POMT2 Blocking Peptide

PRODUCT OVERVIEW

Product Name	POMT2, Blocking Peptide
Full Product Name	POMT2 Peptide
Product Gene Name	POMT2 blocking peptide
Product Synonym Names	A830009D15Rik; AW046274; DKFZp686G10254; Dolichyl phosphate mannose protein mannosyltransferase 2; FLJ22309; LGMD2N; MDDGA2; MDDGB2; MDDGC2; POMT 2; Protein O mannosyltransferase 2; Putative protein O mannosyltransferase; rCG_20643 antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	POMT2 peptide (MBS544302) is used for blocking the activity of POMT2 antibody (MBS540753)
Antibody/Peptide Pairs	POMT2 peptide (MBS544302) is used for blocking the activity of POMT2 antibody (MBS544077)
Antibody/Peptide Pairs	POMT2 peptide (MBS544302) is used for blocking the activity of POMT2 antibody (MBS544078)
Molecular Weight	8,899 Da
OMIM	607439
Immunogen	Synthetic peptide taken within amino acid region 500-560 on human POMT2 protein.
Expression	Highly expressed in testis; detected at low levels in most tissues.
Molecular Function	dolichyl-phosphate-mannose-protein mannosyltransferase acitivity, metal ion binding
Subcellular Location	Endoplasmic Reticulum membrane, multi-pass membrane protein
Applications Tested/Suitable for POMT2 blocking peptide	Immunodepletion, Immunocompetition
Application Notes for POMT2 blocking peptide	Immunohistochemistry: 1:100 Western Blot: 1:500
Related Product Information for POMT2 blocking peptide	Antigenic Blocking Peptide Protein O-mannosyl-transferase 2 Transfers mannosyl residues to the hydroxyl group of serine or threonine residues. Coexpression of both POMT1 and POMT2 is necessary for enzyme activity, expression of either POMT1 or POMT2 alone is insufficient.
Other Notes	Small volumes of POMT2 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 POMT2 purchase	MBS544302 is a blocking peptide targeting POMT2. Also known as POMT2 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POMT2. It may not necessarily be applicable to this product.

NCBI GI #	32171723
NCBI GeneID	29954
NCBI Accession #	Q9UKY4.2

UniProt Primary Accession #	Q9UKY4
UniProt Secondary Accession #	Q9NSG6; Q9P1W0; Q9P1W2
UniProt Related Accession #	Q9UKY4
NCBI Official Full Name	Protein O-mannosyl-transferase 2
NCBI Official Synonym Full Names	protein O-mannosyltransferase 2
NCBI Official Symbol	POMT2
NCBI Official Synonym Symbols	LGMD2N; MDDGA2; MDDGB2; MDDGC2
UniProt Protein Name	Protein O-mannosyl-transferase 2
UniProt Synonym Protein Names	Dolichyl-phosphate-mannose--protein mannosyltransferase 2
Protein Family	Protein O-mannosyl-transferase
UniProt Gene Name	POMT2
UniProt Entry Name	POMT2_HUMAN
NCBI Protein Information	protein O-mannosyl-transferase 2
NCBI Summary for POMT2	The protein encoded by this gene is an O-mannosyltransferase that requires interaction with the product of the POMT1 gene for enzymatic function. The encoded protein is found in the membrane of the endoplasmic reticulum. Defects in this gene are a cause of Walker-Warburg syndrome (WWS).[provided by RefSeq, Oct 2008]
UniProt Comments for POMT2	POMT2: Transfers mannosyl residues to the hydroxyl group of serine or threonine residues. Coexpression of both POMT1 and POMT2 is necessary for enzyme activity, expression of either POMT1 or POMT2 alone is insufficient. Defects in POMT2 are the cause of muscular dystrophy- dystroglycanopathy congenital with brain and eye anomalies type A2 (MDDGA2); also called Walker-Warburg syndrome or muscle-eye-brain disease POMT2-related. MDDGA2 is a autosomal recessive disorder characterized by congenital muscular dystrophy associated with cobblestone lissencephaly and other brain anomalies, eye malformations, profound mental retardation, and death usually in the first years of life. Included diseases are the more severe Walker-Warburg syndrome and the slightly less severe muscle-eye-brain disease. Defects in POMT2 are the cause of muscular dystrophy- dystroglycanopathy congenital with mental retardation type B2 (MDDGB2); also called muscular dystrophy congenital POMT2-related. MDDGB2 is an autosomal recessive disorder characterized by congenital muscular dystrophy associated with mental retardation and mild structural brain abnormalities. Defects in POMT2 are the cause of muscular dystrophy-dystroglycanopathy limb-girdle type C2 (MDDGC2); also called limb-girdle muscular dystrophy type 2N (LGMD2N) or muscular dystrophy-dystroglycanopathy limb-girdle POMT2-related (MDGD2C). MDDGC2 is an autosomal recessive muscular dystrophy with onset after ambulation is achieved. MDDGC2 is characterized by increased serum creatine kinase and mild muscle weakness. Muscle biopsy shows dystrophic changes, inflammatory changes, and severely decreased alpha-dystroglycan. Cognition is normal. Belongs to the glycosyltransferase 39 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Glycan Metabolism - O-mannosyl glycan biosynthesis; Transferase; EC 2.4.1.109; Membrane protein, multi-pass; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 14q24 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: dolichyl-phosphate-mannose-protein mannosyltransferase activity; metal ion binding Biological Process: cell wall mannoprotein biosynthetic process; multicellular organismal development; protein amino acid O-linked glycosylation; protein amino acid O-linked mannosylation Disease: Muscular Dystrophy-dystroglycanopathy (congenital With Brain And Eye Anomalies), Type A, 1; Muscular Dystrophy-dystroglycanopathy (congenital With Brain And Eye Anomalies), Type A, 2; Muscular Dystrophy-dystroglycanopathy (congenital With Mental Retardation), Type B, 2; Muscular Dystrophy-dystroglycanopathy (limb-girdle), Type C, 2
Research Articles on POMT2	**1.** Our report is the first to document an association between POMT2 mutations and aortopathy with concomitant depressed left ventricular systolic function.

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