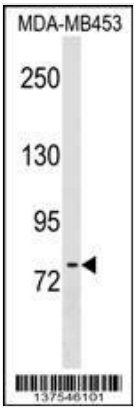
POMT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	POMT2, Polyclonal Antibody
Full Product Name	POMT2, CT (POMT2, Protein O-mannosyl-transferase 2, Dolichyl-phosphate-mannose-protein mannosyltransferase 2) (APC)
Product Gene Name	anti-POMT2 antibody
Product Synonym Names	POMT2; Protein O-mannosyl-transferase 2; Dolichyl-phosphate-mannose--protein mannosyltransferase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	84,214 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (77741299..77787225, complement). Location: 14q24
OMIM	607439
3D Structure	ModBase 3D Structure for Q9UKY4
Immunogen	POMT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 539-567 amino acids from the C-terminal region of human POMT2.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-POMT2 antibody	Antibodies; Enzymes; Transferase
Applications Tested/Suitable for anti-POMT2 antibody	Western Blot (WB), FLISA
Application Notes for anti-POMT2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-POMT2 antibody	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).
Product References and Citations for anti-POMT2 antibody	Manya, H., et al. J. Biochem. 147(3):337-344(2010). Yanagisawa, A., et al. Eur J Med Genet 52(4):201-206(2009). Murakami, T., et al. Brain Dev. 31(6):465-468(2009). Mercuri, E., et al. Neurology 72(21):1802-1809(2009). Messina, S., et al. Neuromuscul. Disord. 18(7):565-571(2008).

Other Notes	Small volumes of anti-POMT2 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.
Searchable Terms for POMT2 purchase	MBS6335852 is an antibody targeting POMT2. Also known as POMT2, CT (POMT2, Protein O-mannosyl-transferase 2, Dolichyl-phosphate-mannose-protein mannosyltransferase 2) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-POMT2 antibody
POMT2 Antibody (C-term) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the POMT2 antibody detected the POMT2 protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	32455271
NCBI GeneID	29954
NCBI Accession #	NP_037514.2
UniProt Primary Accession #	Q9UKY4
UniProt Secondary Accession #	Q9NSG6; Q9P1W0; Q9P1W2
UniProt Related Accession #	Q9UKY4
GenBank Nucleotide #	NM_013382.5
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; dolichyl-phosphate-mannose--protein mannosyltransferase 2

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: EC 2.4.1.109; Glycan Metabolism - O-mannosyl glycan biosynthesis; Transferase; Membrane protein, integral; Endoplasmic reticulum; Membrane protein, multi-pass 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.** the effects of replacing Arg(64), Glu(78) and Arg(138)residues in human POMT1 and POMT2 with Ala on complex formation and enzymatic activity were studied.
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