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POMT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12380b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y6A1
Other Accession	NP_001070833.1, NP_001129586.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31305
Calculated MW	84881
Antigen Region	706-735

Additional Information

Gene ID	10585
Other Names	Protein O-mannosyl-transferase 1, Dolichyl-phosphate-mannose--protein mannosyltransferase 1, POMT1
Target/Specificity	This POMT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 706-735 amino acids from the C-terminal region of human POMT1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	POMT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	POMT1
Function	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 (PubMed:12369018, PubMed:14699049, PubMed:28512129). Essentially dedicated to O-mannosylation of alpha- DAG1 and few other proteins but not of cadherins and protocaherins (PubMed:28512129).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Widely expressed. Highly expressed in testis, heart and pancreas. Detected at lower levels in kidney, skeletal muscle, brain, placenta, lung and liver

Background

The protein encoded by this gene is an O-mannosyltransferase that requires interaction with the product of the POMT2 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) and limb-girdle muscular dystrophy type 2K (LGMD2K). Several transcript variants encoding different isoforms have been found for this gene.

References

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Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Cotarelo, R.P., et al. Clin. Genet. 76(1):108-112(2009)
Mercuri, E., et al. Neurology 72(21):1802-1809(2009)
Judas, M., et al. Neuropediatrics 40(1):6-14(2009)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.