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ALG10B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5630b

Product Information

Application	WB, E
Primary Accession	Q5I7T1
Other Accession	Q5BKT4, NP_001013642.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27202
Calculated MW	55448
Antigen Region	324-353

Additional Information

Gene ID	144245
Other Names	Putative Dol-P-Glc:Glc(2)Man(9)GlcNAc(2)-PP-Dol alpha-1, 2-glucosyltransferase, Alpha-1, 2-glucosyltransferase ALG10-A, Alpha-2-glucosyltransferase ALG10-B, Asparagine-linked glycosylation protein 10 homolog B, Potassium channel regulator 1, ALG10B, KCR1
Target/Specificity	This ALG10B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 324-353 amino acids from the C-terminal region of human ALG10B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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	ALG10B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ALG10B (HGNC:31088)
Function	Dol-P-Glc:Glc(2)Man(9)GlcNAc(2)-PP-Dol alpha-1,2- glucosyltransferase that

	operates in the biosynthetic pathway of dolichol-linked oligosaccharides, the glycan precursors employed in protein asparagine (N)-glycosylation. The assembly of dolichol-linked oligosaccharides begins on the cytosolic side of the endoplasmic reticulum membrane and finishes in its lumen. The sequential addition of sugars to dolichol pyrophosphate produces dolichol-linked oligosaccharides containing fourteen sugars, including two GlcNAcs, nine mannoses and three glucoses. Once assembled, the oligosaccharide is transferred from the lipid to nascent proteins by oligosaccharyltransferases. In the lumen of the endoplasmic reticulum, adds the third and last glucose residue from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide intermediate Glc(2)Man(9)GlcNAc(2)-PP-Dol to produce Glc(3)Man(9)GlcNAc(2)-PP-Dol.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Also detected at the plasma membrane {ECO:0000250|UniProtKB:O88788}
Tissue Location	Highly expressed in heart, placenta, liver, kidney and pancreas. Weakly expressed in lung, skeletal muscle and brain

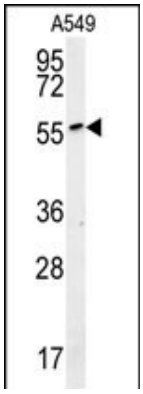
Background

Putative alpha-1,2-glucosyltransferase, which adds the third glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation. Transfers glucose from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide Glc(2)Man(9)GlcNAc(2)-PP-Dol. When coupled to KCNH2 may reduce KCNH2 sensitivity to classic proarrhythmic drug blockade, possibly by mediating glycosylation of KCNH2.

References

Daly, A.K., et al. Nat. Genet. 41(7):816-819(2009)
Petersen, C.I., et al. Proc. Natl. Acad. Sci. U.S.A. 101(32):11773-11778(2004)
Kupershmidt, S., et al. FASEB J. 17(15):2263-2265(2003)

Images



ALG10B Antibody (C-term) (Cat. #AP5630b) western blot analysis in A549 cell line lysates (15ug/lane).This demonstrates the ALG10B antibody detected the ALG10B protein (arrow).

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