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ALG10B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5630b

Specification

ALG10B Antibody (C-term) - Product Information

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

ALG10B Antibody (C-term) - 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.

ALG10B Antibody (C-term) - 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}

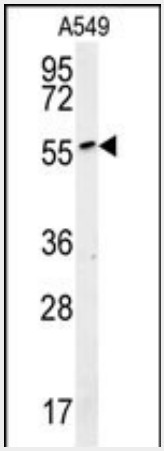
Tissue Location
Highly expressed in heart, placenta, liver, kidney and pancreas. Weakly expressed in lung, skeletal muscle and brain

ALG10B Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ALG10B Antibody (C-term) - 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).

ALG10B Antibody (C-term) - 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.

ALG10B Antibody (C-term) - 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)