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ALG8 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18533a

Specification

ALG8 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9BVK2
Other Accession	Q6P8H8, Q0P5D9, NP_076984.2
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**60088**
Antigen Region	**15-41**

ALG8 Antibody (N-term) - Additional Information

Gene ID 79053

Other Names
Probable dolichyl pyrophosphate Glc1Man9GlcNAc2 alpha-1, 3-glucosyltransferase, Asparagine-linked glycosylation protein 8 homolog, Dol-P-Glc:Glc(1)Man(9)GlcNAc(2)-PP-dolichyl alpha-1, 3-glucosyltransferase, Dolichyl-P-Glc:Glc1Man9GlcNAc2-PP-dolichyl glucosyltransferase, ALG8

Target/Specificity
This ALG8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-41 amino acids from the N-terminal region of human ALG8.

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
ALG8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ALG8 Antibody (N-term) - Protein Information

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Name ALG8 {ECO:0000303|PubMed:28375157, ECO:0000312|HGNC:HGNC:23161}

Function Dolichyl pyrophosphate Glc1Man9GlcNAc2 alpha-1,3- 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 second glucose residue from dolichyl phosphate glucose (Dol-P- Glc) onto the lipid-linked oligosaccharide intermediate Glc(1)Man(9)GlcNAc(2)-PP-Dol to produce Glc(2)Man(9)GlcNAc(2)-PP-Dol. Glc(2)Man(9)GlcNAc(2)-PP-Dol is a substrate for ALG10, the following enzyme in the biosynthetic pathway (PubMed:12480927, PubMed:15235028). Required for PKD1/Polycystin-1 maturation and localization to the plasma membrane of the primary cilia (By similarity).

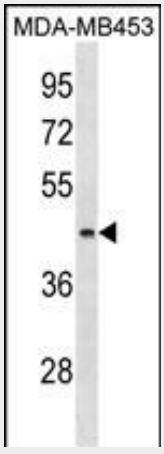
Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

ALG8 Antibody (N-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

ALG8 Antibody (N-term) - Images



ALG8 Antibody (N-term) (Cat. #AP18533a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the ALG8 antibody detected the ALG8 protein (arrow).

ALG8 Antibody (N-term) - Background

This gene encodes a member of the ALG6/ALG8

glucosyltransferase family. The encoded protein catalyzes the addition of the second glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation of proteins. Mutations in this gene have been associated with congenital disorder of glycosylation type Ih (CDG-Ih). Alternatively spliced transcript variants encoding different isoforms have been identified.

ALG8 Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Stolting, T., et al. Mol. Genet. Metab. 98(3):305-309(2009)
Jaeken, J., et al. Curr. Opin. Pediatr. 16(4):434-439(2004)
Schollen, E., et al. J. Med. Genet. 41(7):550-556(2004)
Jaeken, J. J. Inherit. Metab. Dis. 27(3):423-426(2004)