10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALG11 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18142b

Specification

ALG11 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q2TAA5
Other Accession	NP_001004127.2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**55651**
Antigen Region	**442-468**

ALG11 Antibody (C-term) - Additional Information

Gene ID 440138

Other Names
GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1, 2-mannosyltransferase, Asparagine-linked glycosylation protein 11 homolog, Glycolipid 2-alpha-mannosyltransferase, ALG11, GT8

Target/Specificity
This ALG11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 442-468 amino acids from the C-terminal region of human ALG11.

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
ALG11 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ALG11 Antibody (C-term) - Protein Information

Name ALG11 (HGNC:32456)

Synonyms GT8

Function GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase 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. Catalyzes, on the cytoplasmic face of the endoplasmic reticulum, the addition of the fourth and fifth mannose residues to the dolichol-linked oligosaccharide chain, to produce Man(5)GlcNAc(2)-PP-dolichol core oligosaccharide (PubMed:20080937). Man(5)GlcNAc(2)-PP-dolichol is a substrate for ALG3, the following enzyme in the biosynthetic pathway (PubMed:10581255).

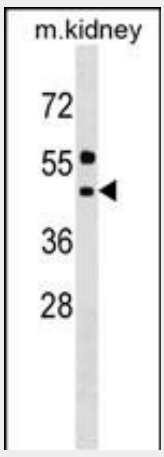
Cellular Location
Endoplasmic reticulum membrane; Single-pass membrane protein {ECO:0000250|UniProtKB:P53954}

ALG11 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

ALG11 Antibody (C-term) - Images



ALG11 Antibody (C-term) (Cat. #AP18142b) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the ALG11 antibody detected the ALG11 protein (arrow).

ALG11 Antibody (C-term) - Background

This gene encodes a

GDP-Man:Man3GlcNAc2-PP-dolichol-alpha1,2-mannosyltransferase which is localized to the cytosolic side of the endoplasmic reticulum (ER) and catalyzes the transfer of the fourth and fifth mannose residue from GDP-mannose (GDP-Man) to Man3GlcNAc2-PP-dolichol and Man4GlcNAc2-PP-dolichol resulting in the production of Man5GlcNAc2-PP-dolichol. Mutations in this gene are associated with congenital disorder of glycosylation type Ip (CDGIP). This gene overlaps but is distinct from the UTP14, U3 small nucleolar ribonucleoprotein, homolog C (yeast) gene. A pseudogene of the GDP-Man:Man3GlcNAc2-PP-dolichol-alpha1,2-mannosyltransferase has been identified on chromosome 19.

ALG11 Antibody (C-term) - References

Rind, N., et al. Hum. Mol. Genet. 19(8):1413-1424(2010)
Rohozinski, J., et al. Biol. Reprod. 74(4):644-651(2006)