

ALG12 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17184b

Specification

ALG12 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [Q9BV10](#)

ALG12 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 79087

Other Names

Dol-P-Man:Man(7)GlcNAc(2)-PP-Dol alpha-1, 6-mannosyltransferase, Asparagine-linked glycosylation protein 12 homolog, hALG12, Dolichyl-P-Man:Man(7)GlcNAc(2)-PP-dolichyl-alpha-1, 6-mannosyltransferase, Mannosyltransferase ALG12 homolog, Membrane protein SB87, ALG12

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ALG12 Antibody (C-term) Blocking Peptide - Protein Information

Name ALG12

Function

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. In the lumen of the endoplasmic reticulum, adds the eighth mannose residue in an alpha-1,6 linkage onto Man(7)GlcNAc(2)-PP-dolichol to produce Man(8)GlcNAc(2)-PP-dolichol.

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

ALG12 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ALG12 Antibody (C-term) Blocking Peptide - Images

ALG12 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the glycosyltransferase 22 family. The encoded protein catalyzes the addition of the eighthmannose residue in an alpha-1,6 linkage onto the dolichol-PP-oligosaccharide precursor (dolichol-PP-Man(7)GlcNAc(2)) required for protein glycosylation. Mutations in this gene have been associated with congenital disorder of glycosylation type Ig(CDG-Ig) characterized by abnormal N-glycosylation. [provided by RefSeq].

ALG12 Antibody (C-term) Blocking Peptide - References

Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004) Jaeken, J., et al. Curr. Opin. Pediatr. 16(4):434-439(2004) Jaeken, J. J. Inherit. Metab. Dis. 27(3):423-426(2004) Zdebska, E., et al. Pediatr. Res. 54(2):224-229(2003) Thiel, C., et al. Biochem. J. 367 (PT 1), 195-201 (2002) :