

ALG11 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58808

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q2TAA5
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55651

Additional Information

Gene ID	440138
Other Names	GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1, 2-mannosyltransferase, 2.4.1.131, Asparagine-linked glycosylation protein 11 homolog, Glycolipid 2-alpha-mannosyltransferase, ALG11, GT8
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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