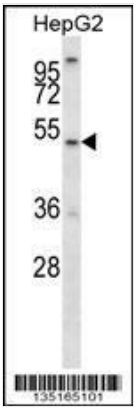
ALG11 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALG11, Polyclonal Antibody
Full Product Name	ALG11, CT (ALG11, GT8, GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase, Asparagine-linked glycosylation protein 11 homolog, Glycolipid 2-alpha-mannosyltransferase)
Product Gene Name	anti-ALG11 antibody
Product Synonym Names	Anti -ALG11, CT (ALG11, GT8, GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase, Asparagine-linked glycosylation protein 11 homolog, Glycolipid 2-alpha-mannosyltransferase)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	55,651 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (52586523..52603784). Location: 13q14.2
OMIM	613661
3D Structure	ModBase 3D Structure for Q2TAA5
Immunogen	ALG11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 343-373 amino acids from the C-terminal region of human ALG11.
Product Categories/Family for anti-ALG11 antibody	Antibodies; Abs to Enzymes; Transferase
Applications Tested/Suitable for anti-ALG11 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-ALG11 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-ALG11 antibody	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.

Other Notes	Small volumes of anti-ALG11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALG11 purchase	MBS6009935 is an antibody targeting ALG11. Also known as ALG11, CT (ALG11, GT8, GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase, Asparagine-linked glycosylation protein 11 homolog, Glycolipid 2-alpha-mannosyltransferase). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ALG11 antibody
ALG11 Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the ALG11 antibody detected the ALG11 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALG11. It may not necessarily be applicable to this product.

NCBI GI #	84040251
NCBI GeneID	440138
NCBI Accession #	AAI11023.1
UniProt Primary Accession #	Q2TAA5
UniProt Secondary Accession #	Q5TAN9; Q6DKI6; Q96FI7; A5PLP3; B4DKW9
UniProt Related Accession #	Q2TAA5
NCBI Official Full Name	ALG11 protein
NCBI Official Synonym Full Names	ALG11, alpha-1,2-mannosyltransferase
NCBI Official Symbol	ALG11
NCBI Official Synonym Symbols	GT8; CDG1P
UniProt Protein Name	GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase
UniProt Synonym Protein Names	Asparagine-linked glycosylation protein 11 homolog; Glycolipid 2-alpha-mannosyltransferase
Protein Family	GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase
UniProt Gene Name	ALG11
UniProt Synonym Gene Names	GT8
UniProt Entry Name	ALG11_HUMAN
NCBI Protein Information	GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase; GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase; glycolipid 2-alpha-mannosyltransferase; asparagine-linked glycosylation protein 11 homolog; GDP-Man:Man(3)GlcNAc(2)-PP-dolichol alpha-1,2-mannosyltransferase; asparagine-linked glycosylation 11, alpha-1,2-mannosyltransferase homolog

UniProt Comments for ALG11	ALG11: Mannosyltransferase involved in the last steps of the synthesis of Man5GlcNAc(2)-PP-dolichol core oligosaccharide on the cytoplasmic face of the endoplasmic reticulum. Catalyzes the addition of the 4th and 5th mannose residues to the dolichol- linked oligosaccharide chain. Defects in ALG11 are the cause of congenital disorder of glycosylation type 1P (CDG1P). A multisystem disorder caused by a defect in glycoprotein biosynthesis and characterized by under-glycosylated serum glycoproteins. Congenital disorders of glycosylation result in a wide variety of clinical features, such as defects in the nervous system development, psychomotor retardation, dysmorphic features, hypotonia, coagulation disorders, and immunodeficiency. The broad spectrum of features reflects the critical role of N-glycoproteins during embryonic development, differentiation, and maintenance of cell functions. Belongs to the glycosyltransferase group 1 family. Glycosyltransferase 4 subfamily. Protein type: Membrane protein, integral; Transferase; Membrane protein, multi-pass; Glycan Metabolism - N-glycan biosynthesis; EC 2.4.1.131 Chromosomal Location of Human Ortholog: 13q14.2 Cellular Component: endoplasmic reticulum membrane; membrane; integral to membrane Molecular Function: glycolipid 2-alpha-mannosyltransferase activity Biological Process: cellular protein metabolic process; dolichol-linked oligosaccharide biosynthetic process; protein amino acid N-linked glycosylation via asparagine; post-translational protein modification Disease: Congenital Disorder Of Glycosylation, Type Ip
Research Articles on ALG11	**1.** After identifying the congenital disorders of glycosylation-Ip index patient, study describe three more cases suffering from an ALG11 deficiency.
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