Recombinant Human ALG11, His-tagged

Cat. No. ALG11-9571H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALG11 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-328a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	ALG11 asparagine-linked glycosylation 11, alpha-1,2-mannosyltransferase homolog (yeast) [Homo sapiens]
Official Symbol	ALG11
Synonyms	AI849156; alg11; ALG11_HUMAN; Asparagine-linked glycosylation 11; Asparagine-linked glycosylation 11, alpha-1,2-mannosyltransferase homolog (yeast); Asparagine-linked glycosylation protein 11 homolog; AW492253; B230397C21; GT8; KIAA0266; OTTMUSP00000022781; RGD1564725
Gene ID	440138
mRNA Refseq	NM_001004127.2
Protein Refseq	NP_001004127.2
MIM	613666
UniProt ID	Q2TAA5
Chromosome Location	13q14.2
Pathway	Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem; N-glycan precursor biosynthesis, organism-specific biosystem; N-glycan precursor biosynthesis, conserved biosystem

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Function	GDP-Man:Man3GlcNAc2-PP-Dol alpha-1,2-mannosyltransferase activity

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