Recombinant Human ALG12, GST-tagged

Cat. No. ALG12-9572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALG12 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	375-488a.a.
Description	This gene encodes a member of the glycosyltransferase 22 family. The encoded protein catalyzes the addition of the eighth mannose 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.
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 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	ALG12 asparagine-linked glycosylation 12, alpha-1,6-mannosyltransferase homolog

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	(S. cerevisiae) [Homo sapiens]
Official Symbol	ALG12
Synonyms	ALG12; asparagine-linked glycosylation 12, alpha-1,6-mannosyltransferase homolog (S. cerevisiae); asparagine linked glycosylation 12 homolog (yeast, alpha 1,6 mannosyltransferase); dol-P-Man:Man(7)GlcNAc(2)-PP-Dol alpha-1,6-mannosyltransferase; ECM39; membrane protein SB87; mannosyltransferase ALG12 homolog; asparagine-linked glycosylation protein 12 homolog; dolichyl-P-Man:Man(7)GlcNAc(2)-PP-dolichyl-alpha-1,6-mannosyltransferase; dolichyl-P-mannose:Man-7-GlcNAc-2-PP-dolichyl-alpha-6-mannosyltransferase; asparagine-linked glycosylation 12 homolog (yeast, alpha-1,6-mannosyltransferase); asparagine-linked glycosylation 12 homolog (S. cerevisiae, alpha-1,6-mannosyltransferase); CDG1G; hALG12; PP14673; MGC3136; MGC111358;
Gene ID	79087
mRNA Refseq	NM_024105
Protein Refseq	NP_077010
MIM	607144
UniProt ID	Q9BV10
Chromosome Location	22q13.33
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; Metabolic pathways, organism-specific

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	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;
Function	alpha-1,6-mannosyltransferase activity; transferase activity, transferring glycosyl groups;

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