

## Recombinant Human ALG2 293 Cell Lysate

Cat. No. ALG2-8906HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog ( <i>S. cerevisiae</i> ) (ALG2), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

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the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name**

ALG2 asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae) [ Homo sapiens ]

**Official Symbol**

ALG2

**Synonyms**

ALG2; asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae); asparagine linked glycosylation 2 homolog (yeast, alpha 1,3 mannosyltransferase); alpha-1,3/1,6-mannosyltransferase ALG2; CDGII; FLJ14511; hALPG2; NET38; homolog of yeast ALG2; alpha-1,3-mannosyltransferase ALG2; asparagine-linked glycosylation protein 2 homolog; GDP-Man:Man(1)GlcNAc(2)-PP-dolichol mannosyltransferase; GDP-Man:Man(1)GlcNAc(2)-PP-Dol alpha-1,3-mannosyltransferase; GDP-Man:Man(2)GlcNAc(2)-PP-Dol alpha-1,6-mannosyltransferase; asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase); asparagine-linked glycosylation 2 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase);

**Gene ID**

85365

**mRNA Refseq**

NM\_033087

**Protein Refseq**

NP\_149078

**MIM**


607905

**UniProt ID**

Q9H553

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<b>Chromosome Location</b>	9q31.1
<b>Pathway</b>	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 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;
<b>Function</b>	GDP-Man:Man1GlcNAc2-PP-Dol alpha-1,3-mannosyltransferase activity; alpha-1,3-mannosyltransferase activity; calcium-dependent protein binding; calcium-dependent protein binding; protein N-terminus binding; protein anchor; protein binding; protein heterodimerization activity; transferase activity, transferring glycosyl groups;

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