

Recombinant Human ALG13 293 Cell Lysate

Cat. No. ALG13-8908HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for asparagine-linked glycosylation 13 homolog (<i>S. cerevisiae</i>) (ALG13), transcript variant 2 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.
Components	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).
Size	0.1 mg
Storage Instruction	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.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil 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

ALG13 asparagine-linked glycosylation 13 homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

ALG13

Synonyms

ALG13; asparagine-linked glycosylation 13 homolog (*S. cerevisiae*); chromosome X open reading frame 45 , CXorf45, GLT28D1, glycosyltransferase 28 domain containing 1; UDP-N-acetylglucosamine transferase subunit ALG13 homolog; FLJ23018; MDS031; YGL047W; glycosyltransferase 28 domain-containing protein 1; hematopoietic stem/progenitor cells protein MDS031; CXorf45; GLT28D1; FLJ31785; MGC12423;

Gene ID

79868

mRNA Refseq

NM_001039210

Protein Refseq

NP_001034299

MIM

300776

UniProt ID

Q9NP73

Chromosome Location

Xq23

Pathway

Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the

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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;

Function

N-acetylglucosaminyldiphosphodolichol N-acetylglucosaminyltransferase activity; carbohydrate binding; transferase activity, transferring hexosyl groups;