

Recombinant Human DPM1 293 Cell Lysate

Cat. No. DPM1-6835HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit (DPM1) 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 DPM1 dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit [Homo sapiens]

Official Symbol DPM1

Synonyms DPM1; dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit; dolichol-phosphate mannosyltransferase; CDGIE; MPDS; DPM synthase; MPD synthase; mannose-P-dolichol synthase; dolichol-phosphate mannose synthase; dolichol monophosphate mannose synthase; dolichyl-phosphate beta-D-mannosyltransferase;

Gene ID 8813

mRNA Refseq NM_003859

Protein Refseq NP_003850

MIM 603503

UniProt ID O60762

Chromosome Location 20q13.1

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; Post-translational modification: synthesis of GPI-anchored proteins, organism-specific biosystem;

Function

alcohol binding; dolichyl-phosphate beta-D-mannosyltransferase activity; dolichyl-phosphate-mannose-protein mannosyltransferase activity; mannose binding; protein binding; transferase activity, transferring glycosyl groups;

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