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DPM1 Rabbit pAb

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Catalog # AP55565

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O60762
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29634
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DPM1
Epitope Specificity	51-150/260
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum.
DISEASE	Defects in DPM1 are the cause of congenital disorder of glycosylation type 1E (CDG1E) [MIM:608799]. CDGs are metabolic deficiencies in glycoprotein biosynthesis that usually cause severe mental and psychomotor retardation. They are characterized by under-glycosylated serum glycoproteins. CDG1E is an autosomal recessive disorder, characterized by severe developmental delay, hypotnia, seizures, and dysmorphic features.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the lumenal side of the endoplasmic reticulum (ER). Lack of Dol-P-Man results in defective surface expression of GPI-anchored proteins. Dol-P-Man is synthesized from GDP-mannose and dolichol-phosphate on the cytosolic side of the ER by the enzyme dolichyl-phosphate mannosyltransferase. Human DPM1 lacks a carboxy-terminal transmembrane domain and signal sequence and is regulated by DPM2. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8813
Other Names	Dolichol-phosphate mannosyltransferase subunit 1, 2.4.1.83, Dolichol-phosphate mannose synthase subunit 1, DPM synthase subunit 1, Dolichyl-phosphate beta-D-mannosyltransferase subunit 1, Mannose-P-dolichol synthase subunit 1, MPD synthase subunit 1, DPM1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

	0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DPM1
Function	Transfers mannose from GDP-mannose to dolichol monophosphate to form dolichol phosphate mannose (Dol-P-Man) which is the mannosyl donor in pathways leading to N-glycosylation, glycosyl phosphatidylinositol membrane anchoring, and O-mannosylation of proteins; catalytic subunit of the dolichol-phosphate mannose (DPM) synthase complex.
Cellular Location	Endoplasmic reticulum

Background

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