10320 Camino Santa Fe, Suite G
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DPM1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7351c

Specification

DPM1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O60762

DPM1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8813

Other Names
Dolichol-phosphate mannosyltransferase subunit 1, 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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7351c was selected from the Center region of human DPM1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DPM1 Antibody (Center) Blocking Peptide - Background

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.

DPM1 Antibody (Center) Blocking Peptide - References

Ashida,H., J. Biol. Chem. 281 (2), 896-904 (2006)

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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.

DPM1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides