

DPM1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7351c**Specification**

DPM1 Antibody (Center) Blocking Peptide - Product InformationPrimary 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](/products/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 - 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](#)

DPM1 Antibody (Center) Blocking Peptide - Images

DPM1 Antibody (Center) Blocking Peptide - Background

Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the luminal 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)