

DPM2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16844b**Specification**

DPM2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O94777](#)**DPM2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8818**Other Names**

Dolichol phosphate-mannose biosynthesis regulatory protein, Dolichol-phosphate mannose synthase subunit 2, DPM synthase subunit 2, DPM2

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.

DPM2 Antibody (C-term) Blocking Peptide - Protein Information**Name** DPM2 ([HGNC:3006](#))**Function**

Regulates the biosynthesis of dolichol phosphate-mannose (PubMed: [10835346](http://www.uniprot.org/citations/10835346)). Regulatory subunit of the dolichol-phosphate mannose (DPM) synthase complex; essential for the ER localization and stable expression of DPM1 (PubMed: [10835346](http://www.uniprot.org/citations/10835346)). Part of the glycosylphosphatidylinositol-N-acetylglucosaminyltransferase (GPI-GnT) complex that catalyzes the transfer of N-acetylglucosamine from UDP-N-acetylglucosamine to phosphatidylinositol and participates in the first step of GPI biosynthesis (PubMed: [16162815](http://www.uniprot.org/citations/16162815)). May act by regulating the GPI-GnT complex (PubMed: [10944123](http://www.uniprot.org/citations/10944123)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

DPM2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DPM2 Antibody (C-term) Blocking Peptide - Images

DPM2 Antibody (C-term) 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. The protein encoded by this gene is a hydrophobic protein that contains 2 predicted transmembrane domains and a putative ER localization signal near the C terminus. This protein associates with DPM1 *in vivo* and is required for the ER localization and stable expression of DPM1 and also enhances the binding of dolichol-phosphate to DPM1.

DPM2 Antibody (C-term) Blocking Peptide - References

Ashida, H., et al. J. Biol. Chem. 281(2):896-904(2006) Suzuki, H., et al. Genome Res. 11(10):1758-1765(2001) Kinoshita, T., et al. Curr Opin Chem Biol 4(6):632-638(2000) Watanabe, R., et al. EMBO J. 19(16):4402-4411(2000) Maeda, Y., et al. EMBO J. 19(11):2475-2482(2000)