

**Goat Anti-DPM1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1338b****Specification**

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**Goat Anti-DPM1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O60762</a>
Other Accession	<a href="#">NP_003850</a> , <a href="#">8813</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	29634

**Goat Anti-DPM1 Antibody - 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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-DPM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-DPM1 Antibody - 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**Goat Anti-DPM1 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-DPM1 Antibody - Images**

AF1338b (0.1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-DPM1 Antibody - 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.

**Goat Anti-DPM1 Antibody - References**

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

Purification and identification of G protein-coupled receptor protein complexes under native conditions. Daulat AM, et al. Mol Cell Proteomics, 2007 May. PMID 17215244.

Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.

DPM1, the catalytic subunit of dolichol-phosphate mannose synthase, is tethered to and stabilized on the endoplasmic reticulum membrane by DPM3. Ashida H, et al. J Biol Chem, 2006 Jan 13. PMID 16280320.

A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.