

Goat Anti-DPM1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1338b

Specification

Goat Anti-DPM1 Antibody - Product Information

Application	WB
Primary Accession	O60762
Other Accession	NP_003850 , 8813
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

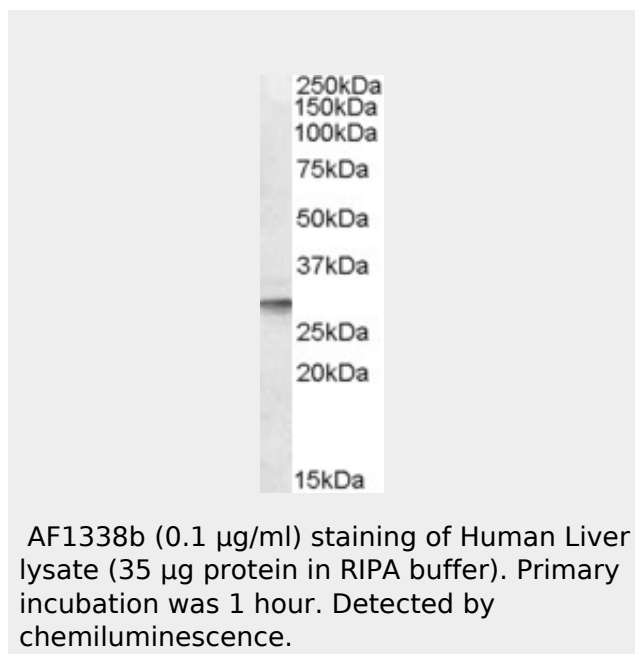
Storage

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



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.

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.

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.

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](#)