

DPAGT1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13970a**Specification**

DPAGT1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9H3H5
Other Accession	NP_001373.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46090
Antigen Region	28-57

DPAGT1 Antibody (N-term) - Additional Information**Gene ID** 1798**Other Names**

UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase, GlcNAc-1-P transferase, G1PT, GPT, N-acetylglucosamine-1-phosphate transferase, DPAGT1, DPAGT2

Target/Specificity

This DPAGT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-57 amino acids from the N-terminal region of human DPAGT1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

DPAGT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DPAGT1 Antibody (N-term) - Protein Information**Name** GPT

Function UDP-N-acetylglucosamine--dolichyl-phosphate N- acetylglucosaminephosphotransferase that operates in the biosynthetic pathway of dolichol-linked oligosaccharides, the glycan precursors employed in protein asparagine (N)-glycosylation. The assembly of dolichol-linked oligosaccharides begins on the cytosolic side of the endoplasmic reticulum membrane and finishes in its lumen. The sequential addition of sugars to dolichol pyrophosphate produces dolichol-linked oligosaccharides containing fourteen sugars, including two GlcNAcs, nine mannoses and three glucoses. Once assembled, the oligosaccharide is transferred from the lipid to nascent proteins by oligosaccharyltransferases. Catalyzes the initial step of dolichol- linked oligosaccharide biosynthesis, transferring GlcNAc-1-P from cytosolic UDP-GlcNAc onto the carrier lipid dolichyl phosphate (P- dolichol), yielding GlcNAc-P-P-dolichol embedded in the cytoplasmic leaflet of the endoplasmic reticulum membrane.

Cellular Location

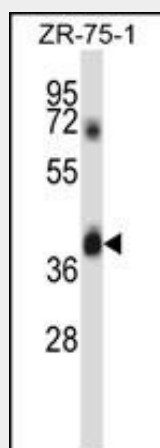
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P23338}; Multi-pass membrane protein

DPAGT1 Antibody (N-term) - Protocols

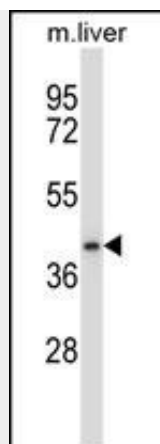
Provided below are standard protocols that you may find useful for product applications.

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

DPAGT1 Antibody (N-term) - Images



DPAGT1 Antibody (N-term) (Cat. #AP13970a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the DPAGT1 antibody detected the DPAGT1 protein (arrow).



DPAGT1 Antibody (N-term) (Cat. #AP13970a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the DPAGT1 antibody detected the DPAGT1 protein (arrow).

DPAGT1 Antibody (N-term) - Background

The protein encoded by this gene is an enzyme that catalyzes the first step in the dolichol-linked oligosaccharide pathway for glycoprotein biosynthesis. This enzyme belongs to the glycosyltransferase family 4. This protein is an integral membrane protein of the endoplasmic reticulum. The congenital disorder of glycosylation type Ij is caused by mutation in the gene encoding this enzyme.

DPAGT1 Antibody (N-term) - References

Sengupta, P.K., et al. J. Biol. Chem. 285(41):31164-31173(2010)
Nita-Lazar, M., et al. Cancer Res. 69(14):5673-5680(2009)
Bretthauer, R.K. Curr Drug Targets 10(6):477-482(2009)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Wu, X., et al. Hum. Mutat. 22(2):144-150(2003)