

**ALG5 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17876C****Specification**

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**ALG5 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Y673</a>
Other Accession	<a href="#">NP_037470.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36946
Antigen Region	74-100

**ALG5 Antibody (Center) - Additional Information****Gene ID** 29880**Other Names**

Dolichyl-phosphate beta-glucosyltransferase, DoIP-glucosyltransferase, Asparagine-linked glycosylation protein 5 homolog, ALG5

**Target/Specificity**

This ALG5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 74-100 amino acids from the Central region of human ALG5.

**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**

ALG5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**ALG5 Antibody (Center) - Protein Information****Name** ALG5 ([HGNC:20266](#))

**Function** Dolichyl-phosphate beta-glucosyltransferase 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. Dolichyl-phosphate beta-glucosyltransferase produces dolichyl beta-D-glucosyl phosphate/Dol-P-Glc, the glucose donor substrate used sequentially by ALG6, ALG8 and ALG10 to add glucose residues on top of the Man(9)GlcNAc(2)-PP-Dol structure. These are the three last steps in the biosynthetic pathway of dolichol-linked oligosaccharides to produce Glc(3)Man(9)GlcNAc(2)-PP-Dol. The enzyme is most probably active on the cytoplasmic side of the endoplasmic reticulum while its product Dol-P-Glc is the substrate for ALG6, ALG8 and ALG11 in the lumen of the endoplasmic reticulum.

#### Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein

#### Tissue Location

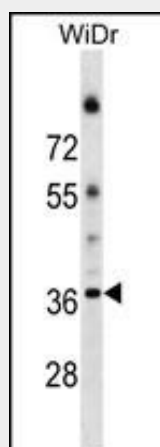
Expressed in pancreas, placenta, liver, heart, brain, kidney, skeletal muscle, and lung

### ALG5 Antibody (Center) - 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](#)

### ALG5 Antibody (Center) - Images



ALG5 Antibody (Center) (Cat. #AP17876c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the ALG5 antibody detected the ALG5 protein (arrow).

### ALG5 Antibody (Center) - Background

This gene encodes a member of the glycosyltransferase 2 family. The encoded protein participates in glucosylation of the oligomannose core in N-linked glycosylation of proteins. The addition of glucose residues to the oligomannose core is necessary to ensure substrate recognition, and therefore, effectual transfer of the oligomannose core to the nascent glycoproteins. Multiple transcript variants encoding different isoforms have been found for this gene.

#### **ALG5 Antibody (Center) - References**

Imbach, T., et al. Proc. Natl. Acad. Sci. U.S.A. 96(12):6982-6987(1999)