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# ALG6 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22095c

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q9Y672 |
| **Other Accession** | Q3TAE8, Q5NVS8, Q3T1L5 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB55877 |
| **Calculated MW** | 58121 |

## Additional Information

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| **Gene ID** | 29929 |
| **Other Names** | Dolichyl pyrophosphate Man9GlcNAc2 alpha-1, 3-glucosyltransferase, 2.4.1.267, Asparagine-linked glycosylation protein 6 homolog, Dol-P-Glc:Man(9)GlcNAc(2)-PP-Dol alpha-1, 3-glucosyltransferase, Dolichyl-P-Glc:Man9GlcNAc2-PP-dolichyl glucosyltransferase, ALG6 |
| **Target/Specificity** | This ALG6 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 241-274 amino acids from the Central region of human ALG6. |
| **Dilution** | WB~~1:2000 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** | ALG6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ALG6 ( HGNC:23157) |
| **Function** | Dolichyl pyrophosphate Man9GlcNAc2 alpha-1,3- 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. In the lumen of the endoplasmic reticulum, adds the first glucose residue from dolichyl phosphate glucose (Dol-P- Glc) onto the lipid-linked oligosaccharide intermediate Man(9)GlcNAc(2)-PP-Dol to produce Glc(1)Man(9)GlcNAc(2)-PP-Dol. Glc(1)Man(9)GlcNAc(2)-PP-Dol is a substrate for ALG8, the following enzyme in the biosynthetic pathway.

**Cellular Location** Endoplasmic reticulum membrane; Multi-pass membrane protein

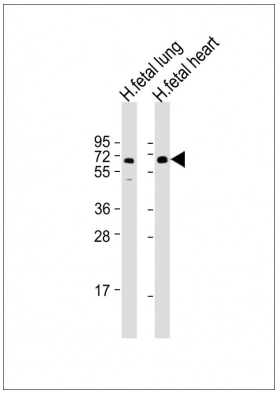
## Background

Adds the first glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation. Transfers glucose from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide Man(9)GlcNAc(2)-PP-Dol.

## References

Imbach T.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:6982-6987(1999).
Mao Y.M.,et al.Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

## Images




All lanes : Anti-ALG6 Antibody (Center) at 1:2000 dilution Lane 1: human fetal lung lysate Lane 2: human fetal heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDM/TBST.