

PIGB Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20135a

Product Information

Application	WB, E
Primary Accession	Q92521
Other Accession	NP_004846.4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32518
Calculated MW	65056
Antigen Region	28-56

Additional Information

Gene ID	9488
Other Names	GPI mannosyltransferase 3, 241-, GPI mannosyltransferase III, GPI-MT-III, Phosphatidylinositol-glycan biosynthesis class B protein, PIG-B, PIGB
Target/Specificity	This PIGB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-56 amino acids from the N-terminal region of human PIGB.
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	PIGB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PIGB (HGNC:8959)
Function	Alpha-1,2-mannosyltransferase that catalyzes the transfer of the third mannose, via an alpha-1,2 bond, from a dolichol-phosphate- mannose (Dol-P-Man) to a 2-acyl-6-[alpha-D-mannosyl-(1->6)-2-

phosphoethanolamine- α -D-mannosyl-(1 $\rightarrow$ 4)- α -D-glucosaminy]-1-(1-radyl,2-acyl-sn-glycero-3-phospho)-1D-myo-inositol intermediate to generate a 2-acyl-6-[α -D-mannosyl-(1 $\rightarrow$ 2)- α -D-mannosyl-(1 $\rightarrow$ 6)-2-phosphoethanolamine- α -D-mannosyl-(1 $\rightarrow$ 4)- α -D-glucosaminy]-1-(1-radyl,2-acyl-sn-glycero-3-phospho)-1D-myo-inositol (also termed H6) and participates in the ninth step of the glycosylphosphatidylinositol- anchor biosynthesis (Probable). May also add the third mannose to a 2-acyl-6-[α -D-mannosyl-(1 $\rightarrow$ 6)- α -D-mannosyl-(1 $\rightarrow$ 4)- α -D-glucosaminy]-1-(1-radyl,2-acyl-sn-glycero-3-phospho)-1D-myo-inositol (also termed H3) intermediate generating a 2-acyl-6-(α -D-mannosyl-(1 $\rightarrow$ 2)- α -D-mannosyl-(1 $\rightarrow$ 6)- α -D-mannosyl-(1 $\rightarrow$ 4)- α -D-glucosaminy)-1-(1-radyl,2-acyl-sn-glycero-3-phospho)-1D-myo-inositol (also termed H4) (Probable).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

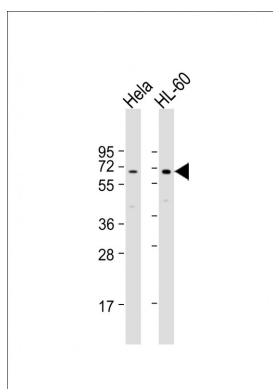
Background

This gene encodes a transmembrane protein that is located in the endoplasmic reticulum and is involved in GPI-anchor biosynthesis. The glycosylphosphatidylinositol (GPI) anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This gene is thought to encode a member of a family of dolichol-phosphate-mannose (Dol-P-Man) dependent mannosyltransferases.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Hwang, G.W., et al. J Toxicol Sci 32(5):581-583(2007)
Anikster, Y., et al. Am. J. Hum. Genet. 71(2):407-414(2002)
Kinoshita, T., et al. Curr Opin Chem Biol 4(6):632-638(2000)
Takahashi, M., et al. EMBO J. 15(16):4254-4261(1996)

Images



All lanes : Anti-PIGB Antibody (N-term) at 1:1000 dilution
Lane 1: HeLa whole cell lysate Lane 2: HL-60 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.