

PIGN Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9751a

Specification

PIGN Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O95427
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	105810
Antigen Region	206-235

PIGN Antibody (N-term) - Additional Information

Gene ID 23556

Other Names

GPI ethanolamine phosphate transferase 1, 2---, MCD4 homolog, Phosphatidylinositol-glycan biosynthesis class N protein, PIG-N, PIGN, MCD4

Target/Specificity

This PIGN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 206-235 amino acids from the N-terminal region of human PIGN.

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

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

PIGN Antibody (N-term) - Protein Information

Name PIGN ([HGNC:8967](#))

Function Ethanolamine phosphate transferase that catalyzes an ethanolamine phosphate (EtNP)

transfer from phosphatidylethanolamine (PE) to the 2-OH position of the first alpha-1,4-linked mannose of the alpha-D-Man-(1->6)-alpha-D-Man-(1->4)-alpha-D-GlcN-(1->6)-(1-radyl,2-acyl-sn-glycero-3-phospho)-2-acyl-inositol (also termed H3) intermediate to generate an alpha-D-Man-(1->6)-2-PEtn-alpha-D-Man-(1->4)-alpha-D-GlcN-(1->6)-(1-radyl,2-acyl-sn-glycero-3-phospho)-2-acyl-inositol and participates in the eighth step of the glycosylphosphatidylinositol-anchor biosynthesis (By similarity). May act as suppressor of replication stress and chromosome missegregation (PubMed:[23446422](#)).

Cellular Location

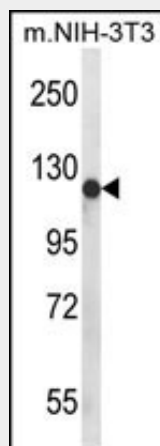
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9R1S3}; Multi-pass membrane protein

PIGN 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](#)

PIGN Antibody (N-term) - Images



Western blot analysis of PIGN Antibody (N-term) (Cat. #AP9751a) in mouse NIH-3T3 cell line lysates (35ug/lane). PIGN (arrow) was detected using the purified Pab.

PIGN Antibody (N-term) - Background

PIGN is involved in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This protein is expressed in the endoplasmic reticulum and transfers phosphoethanolamine (EtNP) to the first mannose of the GPI anchor.

PIGN Antibody (N-term) - References

McDonough, C.W., et al. Hum. Genet. (2009) In press :

Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)
Kinoshita, T., et al. Curr Opin Chem Biol 4(6):632-638(2000)
Hong, Y., et al. J. Biol. Chem. 274(49):35099-35106(1999)
Gaynor, E.C., et al. Mol. Biol. Cell 10(3):627-648(1999)