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PIGZ Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5778b

Specification

PIGZ Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q86VD9
Other Accession	NP_079439.2

PIGZ Antibody (C-term) Blocking peptide - Additional Information

Gene ID 80235

Other Names
GPI mannosyltransferase 4, 241-, GPI mannosyltransferase IV, GPI-MT-IV, Phosphatidylinositol-glycan biosynthesis class Z protein, PIG-Z, SMP3 homolog, hSMP3, PIGZ, SMP3

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PIGZ Antibody (C-term) Blocking peptide - Protein Information

Name PIGZ (HGNC:30596)

Synonyms SMP3

Function
Alpha-1,2-mannosyltransferase that catalyzes the transfer of the fourth mannose, via an alpha-1,2 bond, from a dolichol-phosphate- mannose (Dol-P-Man) to an alpha-D-Man-(1->2)-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 (also termed H6) intermediate and participates in the twelfth step of the glycosylphosphatidylinositol-anchor biosynthesis (PubMed:15208306). The presence of a fourth mannose in GPI is facultative, suggesting that it only exists in some tissues (PubMed:15208306).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Widely expressed at low level, with highest level in brain and colon.

PIGZ Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

PIGZ Antibody (C-term) Blocking peptide - Images

PIGZ Antibody (C-term) Blocking peptide - Background

The glycosylphosphatidylinositol (GPI) anchor is aglycolipid found on many blood cells that serves to anchor proteinsto the cell surface. This gene encodes a protein that is localizedto the endoplasmic reticulum, and is involved in GPI anchorbiosynthesis. As shown for the yeast homolog, which is a member ofa family of dolichol-phosphate-mannose (Dol-P-Man)-dependentmannosyltransferases, this protein can also add a side-branchingfourth mannose to GPI precursors during the assembly of GPIanchors.

PIGZ Antibody (C-term) Blocking peptide - References

Taron, B.W., et al. J. Biol. Chem. 279(34):36083-36092(2004)Eisenhaber, B., et al. Bioessays 25(4):367-385(2003)Oriol, R., et al. Mol. Biol. Evol. 19(9):1451-1463(2002)Grimme, S.J., et al. J. Biol. Chem. 276(29):27731-27739(2001)