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PTDSS1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP17127b

Specification

PTDSS1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P48651

PTDSS1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 9791

Other Names
Phosphatidylserine synthase 1, PSS-1, PtdSer synthase 1, Serine-exchange enzyme I, PTDSS1, KIAA0024, PSSA

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.

PTDSS1 Antibody (C-term) Blocking Peptide - Protein Information

Name PTDSS1

Synonyms KIAA0024, PSSA

Function
Catalyzes a base-exchange reaction in which the polar head group of phosphatidylethanolamine (PE) or phosphatidylcholine (PC) is replaced by L-serine (PubMed:19014349, PubMed:24241535). Catalyzes mainly the conversion of phosphatidylcholine (PubMed:19014349, PubMed:24241535). Also converts, in vitro and to a lesser extent, phosphatidylethanolamine (PubMed:19014349, PubMed:24241535).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q99LH2}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q99LH2}. Note=Highly enriched in the mitochondria-associated membrane (MAM). {ECO:0000250|UniProtKB:Q99LH2}

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PTDSS1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PTDSS1 Antibody (C-term) Blocking Peptide - Images

PTDSS1 Antibody (C-term) Blocking Peptide - Background

Phosphatidylserine (PS) accounts for 5 to 10% of cellmembrane phospholipids. In addition to its role as a structuralcomponent, PS is involved in cell signaling, blood coagulation, andapoptosis. PS is synthesized by a calcium-dependent base-exchangereaction catalyzed by PS synthases (EC 2.7.8.8), like PTDSS1, thatexchange L-serine for the polar head group of phosphatidylcholine(PC) or phosphatidylethanolamine (PE) (Sturbois-Balcerzak et al.,2001 [PubMed 11084049]).

PTDSS1 Antibody (C-term) Blocking Peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Tomohiro, S., et al. Biochem. J. 418(2):421-429(2009)Olsen, J.V., et al. Cell 127(3):635-648(2006)Sturbois-Balcerzak, B., et al. J. Biol. Chem. 276(11):8205-8212(2001)Stone, S.J., et al. J. Biol. Chem. 275(44):34534-34540(2000)