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PTDSS2 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13051a

Specification

PTDSS2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q9BVG9

PTDSS2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 81490

Other Names
Phosphatidylserine synthase 2, PSS-2, PtdSer synthase 2, Serine-exchange enzyme II, PTDSS2, PSS2

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.

PTDSS2 Antibody (N-term) Blocking peptide - Protein Information

Name PTDSS2

Synonyms PSS2

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). Catalyzes the conversion of phosphatatidylethanolamine and does not act on phosphatidylcholine (PubMed:19014349). Can utilize both phosphatidylethanolamine (PE) plasmalogen and diacyl PE as substrate and the latter is six times better utilized, indicating the importance of an ester linkage at the sn-1 position (By similarity). Although it shows no sn-1 fatty acyl preference, exhibits significant preference towards docosahexaenoic acid (22:6n-3) compared with 18:1 or 20:4 at the sn-2 position (By similarity).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Z1X2}; Multi-pass membrane protein. Note=Highly enriched in the mitochondria-associated membrane (MAM). {ECO:0000250|UniProtKB:Q9Z1X2}

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PTDSS2 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

PTDSS2 Antibody (N-term) Blocking peptide - Images

PTDSS2 Antibody (N-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 PTDSS2, thatexchange L-serine for the polar head group of phosphatidylcholine(PC) or phosphatidylethanolamine (PE) (Sturbois-Balcerzak et al.,2001 [PubMed 11084049]).

PTDSS2 Antibody (N-term) Blocking peptide - References

Tomohiro, S., et al. Biochem. J. 418(2):421-429(2009)Olsen, J.V., et al. Cell 127(3):635-648(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)Grandmaison, P.A., et al. Biochim. Biophys. Acta 1636(1):1-11(2004)Sturbois-Balcerzak, B., et al. J. Biol. Chem. 276(11):8205-8212(2001)