

PTDSS2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13051a

Specification

PTDSS2 Antibody (N-term) - Product Information

| | |
|-------------------|-----------------------------|
| Application | IHC-P, WB,E |
| Primary Accession | O9BVG9 |
| Other Accession | NP_110410.1 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 56253 |
| Antigen Region | 1-30 |

PTDSS2 Antibody (N-term) - Additional Information

Gene ID 81490

Other Names

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

Target/Specificity

This PTDSS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PTDSS2.

Dilution

IHC-P~~1:10~50

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

PTDSS2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PTDSS2 Antibody (N-term) - 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 phosphatidylethanolamine 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

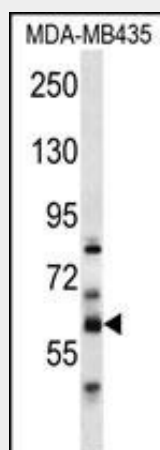
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Z1X2}; Multi-pass membrane protein. Note=Highly enriched in the mitochondria-associated membrane (MAM). {ECO:0000250|UniProtKB:Q9Z1X2}

PTDSS2 Antibody (N-term) - Protocols

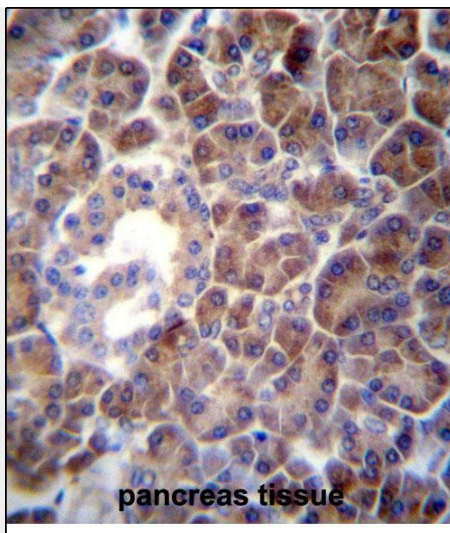
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTDSS2 Antibody (N-term) - Images



PTDSS2 Antibody (N-term) (Cat. #AP13051a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the PTDSS2 antibody detected the PTDSS2 protein (arrow).



PTDSS2 Antibody (N-term) (Cat. #AP13051a) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PTDSS2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PTDSS2 Antibody (N-term) - Background

Phosphatidylserine (PS) accounts for 5 to 10% of cell membrane phospholipids. In addition to its role as a structural component, PS is involved in cell signaling, blood coagulation, and apoptosis. PS is synthesized by a calcium-dependent base-exchange reaction catalyzed by PS synthases (EC 2.7.8.8), like PTDSS2, that exchange L-serine for the polar head group of phosphatidylcholine (PC) or phosphatidylethanolamine (PE) (Sturbois-Balcerzak et al., 2001 [PubMed 11084049]).

PTDSS2 Antibody (N-term) - 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)