10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PTDSS1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21590b

Product Information

Application	WB, E
Primary Accession	P48651
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB50150
Calculated MW	55528

Additional Information

Gene ID	9791
Other Names	Phosphatidylserine synthase 1, PSS-1, PtdSer synthase 1, Serine-exchange enzyme I, PTDSS1, KIAA0024, PSSA
Target/Specificity	This PTDSS1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 427-461 amino acids from the C-terminal region of human PTDSS1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	PTDSS1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

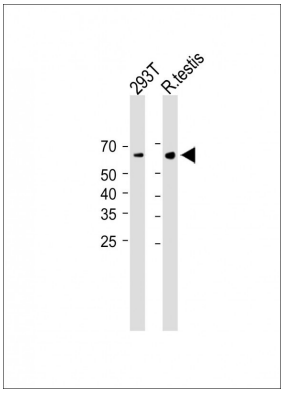
Background

Catalyzes a base-exchange reaction in which the polar head group of phosphatidylethanolamine (PE) or phosphatidylcholine (PC) is replaced by L-serine. In membranes, PTDSS1 catalyzes mainly the conversion of phosphatidylcholine. Also converts, in vitro and to a lesser extent, phosphatidylethanolamine.

References

Nomura N.,et al.DNA Res. 1:27-35(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Kuge O.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:4199-4203(1998).
Olsen J.V.,et al.Cell 127:635-648(2006).

Images



All lanes : Anti-PTDSS1 Antibody (C-term) at 1:1000 dilution Lane 1: 293T whole cell lysate Lane 2: R. testis whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 56kDa Blocking/Dilution buffer: 5% NFDM/TBST.