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PTDSS1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17127b

Product Information

Application	WB, E
Primary Accession	P48651
Other Accession	Q5PQL5, Q99LH2, Q00576, Q2KHY9, NP_055569.1
Reactivity	Human
Predicted	Bovine, Hamster, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37280
Calculated MW	55528
Antigen Region	390-418

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 rabbits immunized with a KLH conjugated synthetic peptide between 390-418 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 0.09% (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	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}

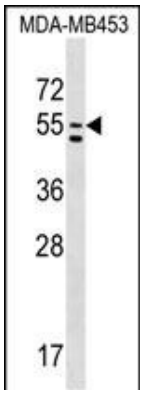
Background

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 PTDSS1, that exchange L-serine for the polar head group of phosphatidylcholine (PC) or phosphatidylethanolamine (PE) (Sturbois-Balcerzak et al., 2001 [PubMed 11084049]).

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)

Images



PTDSS1 Antibody (C-term) (Cat. #AP17127b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the PTDSS1 antibody detected the PTDSS1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.