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PTDSS2 Rabbit pAb

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Catalog # AP57587

Product Information

Application	WB
Primary Accession	Q9BVG9
Reactivity	Human
Predicted	Rat, Dog, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56253
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTDSS2
Epitope Specificity	1-100/487
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]).[supplied by OMIM, May 2009]

Additional Information

Gene ID	81490
Other Names	Phosphatidylserine synthase 2, PSS-2, PtdSer synthase 2, 2.7.8.29, Serine-exchange enzyme II, PTDSS2, PSS2
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

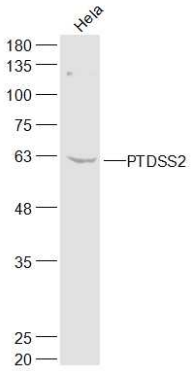
Protein Information

Name	PTDSS2
Synonyms	PSS2
Function	Catalyzes a base-exchange reaction in which the polar head group of phosphatidylethanolamine (PE) is replaced by L-serine to form phosphatidylserine (PubMed:19014349). Lacks phosphatidylcholine-dependent base-exchange activity (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}

Background

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Images



Sample:
Hela(Human) Cell Lysate at 30 ug
Primary: Anti-PTDSS2 (AP57587) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 61 kD

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