

Rabbit anti-Human PTDSS2 Polyclonal Antibody | anti-PTDSS2 antibody

PTDSS2 Antibody (N-term)

CATALOG # AAA284163	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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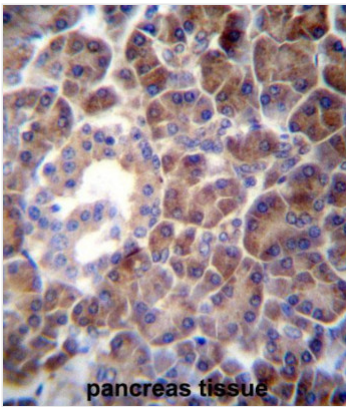
PRODUCT SYNONYMS

PTDSS2; Polyclonal Antibody; PTDSS2 Antibody (N-term); Phosphatidylserine synthase 2; PSS-2; PtdSer synthase 2; Serine-exchange enzyme II; PSS2; anti-PTDSS2 antibody

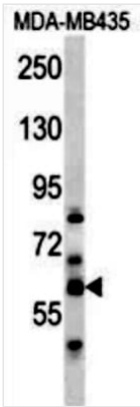
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
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.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	1-30
Sequence Length	487
Applicable Applications for anti-PTDSS2 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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}
Preparation and 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.

IMAGES



IHC (Immunohistochemistry)
PTDSS2 Antibody (N-term) 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.



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

ADDITIONAL INFORMATION

Related Product Information for anti-PTDSS2 antibody	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]).
Product Categories/Family for anti-PTDSS2 antibody	Metabolism; Signal Transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13540555
NCBI GeneID	81490
NCBI Accession #	NP_110410.1
NCBI GenBank Nucleotide #	NM_030783.1
UniProt Accession #	Q9BVG9
Molecular Weight	56253
NCBI Official Full Name	phosphatidylserine synthase 2
NCBI Official Synonym Full Names	phosphatidylserine synthase 2
NCBI Official Symbol	PTDSS2
NCBI Official Synonym Symbols	PSS2
NCBI Protein Information	phosphatidylserine synthase 2
UniProt Protein Name	Phosphatidylserine synthase 2
UniProt Gene Name	PTDSS2

UniProt Synonym Gene Names	PSS2; PSS-2; PtdSer synthase 2
UniProt Entry Name	PTSS2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/ptdss2-antibody-immunohistochemistry-western-blot-elisa/284163>