

SPNS1 Rabbit pAb

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Catalog # AP58587

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9H2V7
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56630
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPNS1
Epitope Specificity	121-220/528
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	Mitochondrion inner membrane; Multi-pass membrane protein. Note=Colocalizes with SDHB.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Sphingolipid transporter (By similarity). May be involved in necrotic or autophagic cell death.

Additional Information

Gene ID	83985
Other Names	Protein spinster homolog 1, HSpin1, SPNS1, Spinster-like protein 1, SPNS1, SPIN1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	SPNS1
Synonyms	SPIN1

Function Plays a critical role in the phospholipid salvage pathway from lysosomes to the cytosol (PubMed:[36161949](#), PubMed:[37075117](#)). Mediates the rate-limiting, proton-dependent, lysosomal efflux of lysophospholipids, which can then be reacylated by acyltransferases in the endoplasmic reticulum to form phospholipids (PubMed:[36161949](#), PubMed:[37075117](#)). Selective for zwitterionic headgroups such as lysophosphatidylcholine (LPC) and lysophosphatidylethanolamine (LPE), can also transport lysophosphatidylglycerol (LPG), but not other anionic lysophospholipids, sphingosine, nor sphingomyelin (PubMed:[36161949](#)). Transports lysophospholipids with saturated, monounsaturated, and polyunsaturated fatty acids, such as 1- hexadecanoyl-sn-glycero-3-phosphocholine, 1-(9Z-octadecenoyl)-sn- glycero-3-phosphocholine and 1-(4Z,7Z,10Z,13Z,16Z,19Z-docosahexaenoyl)- sn-glycero-3-phosphocholine, respectively (PubMed:[36161949](#), PubMed:[37075117](#)). Can also transport lysoplasmalogen (LPC with a fatty alcohol) such as 1-(1Z-hexadecenyl)-sn-glycero-3-phosphocholine (PubMed:[36161949](#)). Lysosomal LPC could function as intracellular signaling messenger (PubMed:[37075117](#)). Essential player in lysosomal homeostasis (PubMed:[36161949](#)). Crucial for cell survival under conditions of nutrient limitation (PubMed:[37075117](#)). May be involved in necrotic or autophagic cell death (PubMed:[12815463](#)).

Cellular Location Lysosome membrane; Multi-pass membrane protein Mitochondrion inner membrane; Multi-pass membrane protein. Note=Occasionally localizes to mitochondria.

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