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SPNS1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13118

Product Information

Application	WB
Primary Accession	Q9H2V7
Other Accession	NM_032038, NP_114427
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56630

Additional Information

Gene ID	83985
Alias Symbol	FLJ38358, HSpin1, LAT, PP2030, SPIN1, SPINL, nrs
Other Names	Protein spinster homolog 1, HSpin1, Spinster-like protein 1, SPNS1, SPIN1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SPNS1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SPNS1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

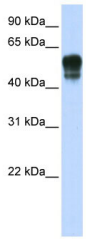
Name	SPNS1
Synonyms	SPIN1
Function	Plays a critical role in the phospholipid salvage pathway from lysosomes to the cytosol (PubMed:36161949, PubMed:37075117). Mediates the rate-limiting, proton-dependent, lysosomal efflux of lysophospholipids, which can then be reacylated by acyltransferases in the endoplasmic 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=Ocassionally localizes to mitochondria.

References

Nakano Y.,et al.Mol. Cell. Biol. 21:3775-3788(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Wan D.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Martin J.,et al.Nature 432:988-994(2004).

Images



WB Suggested Anti-SPNS1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Transfected 293T

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