

SPNS1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13118**Specification**

SPNS1 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	Q9H2V7
Other Accession	NM_032038 , NP_114427
Reactivity	Human, Mouse, Rat, Rabbit, Bovine, Guinea Pig, Dog
Predicted Host	Human, Mouse, Rat, Rabbit, Pig, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 56kDa KDa

SPNS1 antibody - N-terminal region - 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.

SPNS1 antibody - N-terminal region - Protein Information**Name** SPNS1**Synonyms** SPIN1**Function**

Plays a critical role in the phospholipid salvage pathway from lysosomes to the cytosol (PubMed: [36161949](http://www.uniprot.org/citations/36161949), PubMed: [37075117](http://www.uniprot.org/citations/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-docosa-hexaenoyl)-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

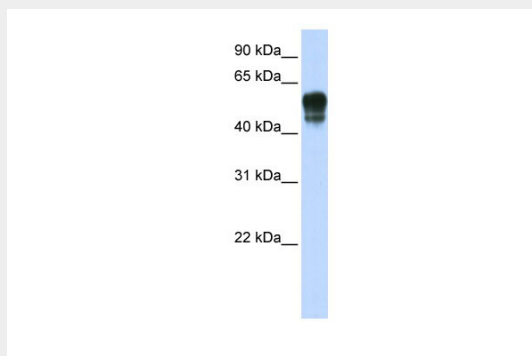
Lysosome membrane; Multi-pass membrane protein Mitochondrion inner membrane; Multi-pass membrane protein. Note=Occasionally localizes to mitochondria.

SPNS1 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SPNS1 antibody - N-terminal region - Images



WB Suggested Anti-SPNS1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500

Positive Control: Transfected 293T

SPNS1 antibody - N-terminal region - 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).