

SPNS2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17856a**Specification**

SPNS2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8IVW8](#)**SPNS2 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 124976

Other Names

Protein spinster homolog 2, SPNS2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SPNS2 Antibody (N-term) Blocking Peptide - Protein Information**Name** SPNS2 {ECO:0000303|PubMed:19074308, ECO:0000312|HGNC:HGNC:26992}**Function**

Lipid transporter that specifically mediates export of sphingosine-1-phosphate (sphing-4-enine 1-phosphate, S1P) and sphinganine-1-phosphate in the lymph, thereby playing a role in lymphocyte trafficking (PubMed:19074308, PubMed:23180825, PubMed:21084291). S1P is a bioactive signaling molecule that regulates many physiological processes important for the development and for the immune system (PubMed:19074308, PubMed:23180825). Regulates levels of S1P and the S1P gradient that exists between the high circulating concentrations of S1P and low tissue levels that control lymphocyte trafficking (PubMed:19074308, PubMed:23180825). Required for the egress of T-cells from lymph nodes during an immune response by mediating S1P secretion, which generates a gradient that enables activated T-cells to access lymph (By similarity). Also required for the egress of immature B-cells from the bone marrow (By similarity). In contrast, not involved in S1P release from red blood cells (By similarity). Involved in auditory function (PubMed:30973865).

S1P release in the inner ear is required for maintenance of the endocochlear potential in the cochlea (By similarity). In addition to export, also able to mediate S1P import (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:A2SWM2}; Multi-pass membrane protein. Endosome membrane {ECO:0000250|UniProtKB:A2SWM2}; Multi-pass membrane protein

SPNS2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SPNS2 Antibody (N-term) Blocking Peptide - Images**SPNS2 Antibody (N-term) Blocking Peptide - Background**

Sphingolipid transporter required for migration of myocardial precursors. Transports sphingosine 1-phosphate (S1P), a secreted lipid mediator that plays critical roles in cardiovascular, immunological, and neural development and function. Mediates the export of S1P from cells in the extraembryonic yolk syncytial layer (YSL), thereby regulating myocardial precursor migration.

SPNS2 Antibody (N-term) Blocking Peptide - References

Kawahara, A., et al. Science 323(5913):524-527(2009) Yanagisawa, H., et al. Cell Death Differ. 10(7):798-807(2003)