

SGPL1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12736a**Specification**

SGPL1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [O95470](#)**SGPL1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 8879**Other Names**

Sphingosine-1-phosphate lyase 1, S1PL, SP-lyase 1, SPL 1, hSPL, Sphingosine-1-phosphate aldolase, SGPL1, KIAA1252

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.

SGPL1 Antibody (N-term) Blocking peptide - Protein Information**Name** SGPL1 ([HGNC:10817](#))**Function**

Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis (PubMed:11018465, PubMed:14570870, PubMed:24809814, PubMed:28165339). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts. Involved in the regulation of pro- inflammatory response and neutrophil trafficking. Modulates neuronal autophagy via phosphoethanolamine production which regulates accumulation of aggregate-prone proteins such as APP (By similarity). Seems to play a role in establishing neuronal contact sites and axonal maintenance (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type III membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:Q8R0X7}

Tissue Location

Ubiquitously expressed (PubMed:11018465, PubMed:28165343). Expressed in fetal and adult adrenal gland (at protein level) (PubMed:28165343).

SGPL1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SGPL1 Antibody (N-term) Blocking peptide - Images

SGPL1 Antibody (N-term) Blocking peptide - Background

SGPL1 cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis.

SGPL1 Antibody (N-term) Blocking peptide - References

Seo, Y.J., et al. J. Virol. 84(16):8124-8131(2010)Vogel, P., et al. PLoS ONE 4 (1), E4112 (2009)
:Peest, U., et al. J. Cell. Biochem. 104(3):756-772(2008)Morgan, A.R., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 144B (6), 762-770 (2007) :Oskouian, B., et al. Proc. Natl. Acad. Sci. U.S.A. 103(46):17384-17389(2006)