

SGPP2 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP18254a

Specification

SGPP2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

<u>Q8IWX5</u>

SGPP2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 130367

Other Names

Sphingosine-1-phosphate phosphatase 2, SPPase2, Spp2, hSPP2, 313-, Sphingosine-1-phosphatase 2, SGPP2

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.

SGPP2 Antibody (N-term) Blocking Peptide - Protein Information

Name SGPP2 (HGNC:19953)

Function

Has specific phosphohydrolase activity towards sphingoid base 1-phosphates. Has high phosphohydrolase activity against dihydrosphingosine-1-phosphate and sphingosine-1-phosphate (S1P) in vitro (PubMed:12411432). Sphingosine-1-phosphate phosphatase activity is needed for efficient recycling of sphingosine into the sphingolipid synthesis pathway (By similarity). May play a role in attenuating intracellular sphingosine 1-phosphate (S1P) signaling. May play a role in pro-inflammatory signaling (PubMed:17113265). Plays a role in the regulation of pancreatic islet beta-cell endoplasmic reticulum stress and proliferation (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Expressed strongly in kidney and heart, followed by brain, colon, small intestine and lung. Not detected in skeletal muscle, thymus, spleen, liver, placenta, and peripheral blood leukocytes.



SGPP2 Antibody (N-term) Blocking Peptide - Protocols

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

<u>Blocking Peptides</u>

SGPP2 Antibody (N-term) Blocking Peptide - Images

SGPP2 Antibody (N-term) Blocking Peptide - Background

Sphingosine-1-phosphate (S1P) is a bioactive sphingolipidmetabolite that regulates diverse biologic processes. SGPP2catalyzes the degradation of S1P (Ogawa et al., 2003 [PubMed12411432]).

SGPP2 Antibody (N-term) Blocking Peptide - References

Mechtcheriakova, D., et al. Cell. Signal. 19(4):748-760(2007)Ogawa, C., et al. J. Biol. Chem. 278(2):1268-1272(2003)