

SPPL2B Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21609c

Specification

SPPL2B Blocking Peptide (Center) - Product Information

Primary Accession [Q8TCT7](#)

SPPL2B Blocking Peptide (Center) - Additional Information

Gene ID 56928

Other Names

Signal peptide peptidase-like 2B, SPP-like 2B, SPPL2b, 3423-, Intramembrane protease 4, IMP-4, Presenilin homologous protein 4, PSH4, Presenilin-like protein 1, SPPL2B, IMP4, KIAA1532, PSL1

Target/Specificity

The synthetic peptide sequence is selected from aa 196-209 of HUMAN SPPL2B

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.

SPPL2B Blocking Peptide (Center) - Protein Information

Name SPPL2B {ECO:0000303|PubMed:15385547, ECO:0000312|HGNC:HGNC:30627}

Function

Intramembrane-cleaving aspartic protease (I-CLiP) that cleaves type II membrane signal peptides in the hydrophobic plane of the membrane. Functions in ITM2B and TNF processing (PubMed:16829951, PubMed:16829952, PubMed:17965014, PubMed:19114711, PubMed:22194595). Catalyzes the intramembrane cleavage of the anchored fragment of shed TNF-alpha (TNF), which promotes the release of the intracellular domain (ICD) for signaling to the nucleus (PubMed:16829951, PubMed:16829952). May play a role in the regulation of innate and adaptive immunity (PubMed:16829952). Catalyzes the intramembrane cleavage of the simian foamy virus processed leader peptide gp18 of the

envelope glycoprotein gp130 dependently of prior ectodomain shedding by furin or furin-like proprotein convertase (PC)-mediated cleavage proteolysis (PubMed:23132852).

Cellular Location

Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Endosome membrane; Multi-pass membrane protein. Membrane; Multi-pass membrane protein; Lumenal side. Note=targeted through the entire secretory pathway to endosomes/lysosomes (PubMed:15998642)

Tissue Location

Expressed predominantly in adrenal cortex and mammary gland.

SPPL2B Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

SPPL2B Blocking Peptide (Center) - Images

SPPL2B Blocking Peptide (Center) - Background

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SPPL2B Blocking Peptide (Center) - References

Irmeler M.,et al.Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
Martoglio B.,et al.Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
Grigorenko A.P.,et al.Biochemistry (Mosc.) 67:826-834(2002).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Grimwood J.,et al.Nature 428:529-535(2004).