

SELI Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13958a**Specification**

SELI Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [O9C0D9](#)**SELI Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 85465

Other Names

Ethanolaminephosphotransferase 1, hEPT1, Selenoprotein I, Sell, EPT1, KIAA1724, SELI

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13958a was selected from the N-term region of SELI. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SELI Antibody (N-term) Blocking peptide - Protein InformationName SELENOI ([HGNC:29361](#))**Function**

Ethanolaminephosphotransferase that catalyzes the transfer of phosphoethanolamine/PE from CDP-ethanolamine to lipid acceptors, the final step in the synthesis of PE via the 'Kennedy' pathway (PubMed:[17132865](http://www.uniprot.org/citations/17132865)), PubMed:[28052917](http://www.uniprot.org/citations/28052917)), PubMed:[29500230](http://www.uniprot.org/citations/29500230)). PE is the second most abundant phospholipid of membranes in mammals and is involved in various membrane-related cellular processes (PubMed:[17132865](http://www.uniprot.org/citations/17132865)). The enzyme is critical for the synthesis of several PE species and could also catalyze the synthesis of ether-linked phospholipids like plasmanyl- and plasmenyl-PE which could explain it is required for proper myelination and neurodevelopment (PubMed:[29500230](http://www.uniprot.org/citations/29500230)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Widely expressed. Abundant in brain, placenta, liver and pancreas, followed by heart, skeletal muscle, lung and kidney. In brain it is strongly expressed in cerebellum, followed by the occipital pole and the frontal lobe.

SELI Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SELI Antibody (N-term) Blocking peptide - Images**SELI Antibody (N-term) Blocking peptide - Background**

This gene encodes a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal.

SELI Antibody (N-term) Blocking peptide - References

Ugochukwu, C.C., et al. Int J Lab Hematol 30(4):312-316(2008) Horibata, Y., et al. J. Lipid Res. 48(3):503-508(2007) Kryukov, G.V., et al. Science 300(5624):1439-1443(2003)