

SELT Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9306a**Specification**

SELT Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P62341](#)**SELT Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 51714**Other Names**

Selenoprotein T, SelT, SELT

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9306a](/products/AP9306a) was selected from the N-term region of human SELT. 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.

SELT Antibody (N-term) Blocking Peptide - Protein Information**Name** SELENOT {ECO:0000303|PubMed:27645994, ECO:0000312|HGNC:HGNC:18136}**Function**

Selenoprotein with thioredoxin reductase-like oxidoreductase activity (By similarity). Protects dopaminergic neurons against oxidative stress and cell death (PubMed:[26866473](http://www.uniprot.org/citations/26866473)). Involved in ADCYAP1/PACAP-induced calcium mobilization and neuroendocrine secretion (By similarity). Plays a role in fibroblast anchorage and redox regulation (By similarity). In gastric smooth muscle, modulates the contraction processes through the regulation of calcium release and MYLK activation (By similarity). In pancreatic islets, involved in the control of glucose homeostasis, contributes to prolonged ADCYAP1/PACAP- induced insulin secretion (By similarity).

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q1H5H1}; Single-pass membrane protein

Tissue Location

Ubiquitous. Highly expressed in the endocrine pancreas.

SELT Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

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

SELT 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.

SELT Antibody (N-term) Blocking Peptide - References

Kryukov, G.V., et.al., Science 300 (5624), 1439-1443 (2003) Kryukov, G.V., et.al., J. Biol. Chem. 274 (48), 33888-33897 (1999)