

SELK Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13595c**Specification**

SELK Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q9Y6D0](#)**SELK Antibody (Center) Blocking peptide - Additional Information****Gene ID** 58515**Other Names**

Selenoprotein K, SelK, SELK

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13595c was selected from the Center region of SELK. 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.

SELK Antibody (Center) Blocking peptide - Protein Information**Name** SELENOK {ECO:0000303|PubMed:27645994, ECO:0000312|HGNC:HGNC:30394}**Function**

Required for Ca(2+) flux in immune cells and plays a role in T-cell proliferation and in T-cell and neutrophil migration (By similarity). Involved in endoplasmic reticulum-associated degradation (ERAD) of soluble glycosylated proteins (PubMed:22016385). Required for palmitoylation and cell surface expression of CD36 and involved in macrophage uptake of low-density lipoprotein and in foam cell formation (By similarity). Together with ZDHHC6, required for palmitoylation of ITPR1 in immune cells, leading to regulate ITPR1 stability and function (PubMed:25368151). Plays a role in protection of cells from ER stress- induced apoptosis (PubMed:20692228). Protects cells from oxidative stress when overexpressed in cardiomyocytes (PubMed:16962588).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein. Cell membrane; Single-pass membrane protein. Note=Probably mainly localized in the ER

Tissue Location

Highly expressed in heart.

SELK Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SELK Antibody (Center) Blocking peptide - Images**SELK Antibody (Center) 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. This selenoprotein is localized to the endoplasmic reticulum and is highly expressed in the heart, where it may function as an antioxidant.

SELK Antibody (Center) Blocking peptide - References

Lu, C., et al. FEBS Lett. 580(22):5189-5197(2006) Kryukov, G.V., et al. Science 300(5624):1439-1443(2003)