

SELK Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13595c**Specification**

SELK Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q9Y6D0
Other Accession	Q4R8M1 , NP_067060.2
Reactivity	Human, Mouse
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	32-61

SELK Antibody (Center) - Additional Information**Gene ID** 58515**Other Names**

Selenoprotein K, SelK, SELK

Target/Specificity

This SELK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-61 amino acids from the Central region of human SELK.

Dilution

WB~~1:500

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SELK Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SELK Antibody (Center) - 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

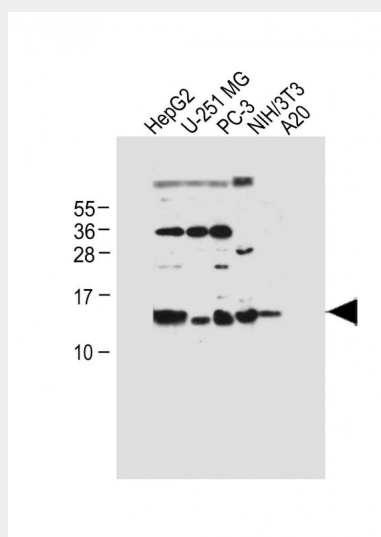
Highly expressed in heart.

SELK Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SELK Antibody (Center) - Images



All lanes : Anti-SELK Antibody (Center) at 1:500 dilution Lane 1: HepG2 whole cell lysate Lane 2: U-251 MG whole cell lysate Lane 3: PC-3 whole cell lysate Lane 4: NIH/3T3 whole cell lysate Lane 5: A20 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 11 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

SELK Antibody (Center) - 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) - References

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

SELK Antibody (Center) - Citations

- [Stable expression and function of the inositol 1,4,5-triphosphate receptor requires palmitoylation by a DHHC6/selenoprotein K complex.](#)