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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

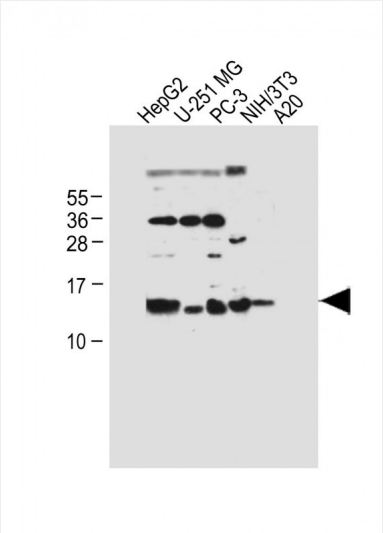
Tissue Location
Highly expressed in heart.

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 Cytomety
- 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.

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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.