

**Datasheet for 600-401-EG6****SELK Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-SELK (RABBIT) Antibody - 600-401-EG6 |
| <b>Item No.:</b>     | 600-401-EG6                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, WB                             |
| <b>Reactivity:</b>   | Human, Mouse, Rat                         |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | SELK is a selenoprotein, containing a selenocysteine residue at its active site. SELK is localized to the endoplasmic reticulum and is highly expressed in the heart, where it may function as an antioxidant. SELK can bind to proteins such as the ER-associated degradation (ERAD) components p97 ATPase, Derlin-1 and -2, and SelS as well as proteins in the oligosaccharyltransferase complex, suggesting that SELK may be involved in the Derlin-dependent ERAD of glycosylated misfolded proteins. SELK is also thought to be important in Ca <sup>2+</sup> flux in immune cells, and is cleaved by m-calpain in resting macrophages. When these macrophages are activated through different Toll-like receptors, this cleavage is inhibited |
| <b>Synonyms:</b>     | SELK Antibody, SelK, HSPC030, HSPC297, Selenoprotein K, SelK, SELENOK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Target Details**

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | SELENOK                                                                                                                                                               |
| <b>Reactivity:</b>     | Human, Mouse, Rat                                                                                                                                                     |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                    |
| <b>Immunogen:</b>      | Anti-SELK antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human SELK. |

**Purity/Specificity:** Anti-SELK Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SELK from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q9Y6D0](#)
- [GeneID - 58515](#)
- [NCBI - NP\\_067060](#)

## Application Details

**Tested Applications:** ELISA, IF, WB

**Application Note:** Anti-SELK Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 11 kDa in Western Blots of specific cell lysates and tissues.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000 - 1:20,000

**IF:** 20 µg/mL

**WB:** 1-2 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

**Stabilizer:** None

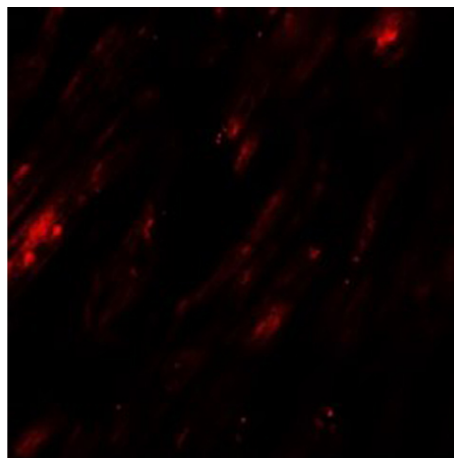
## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images

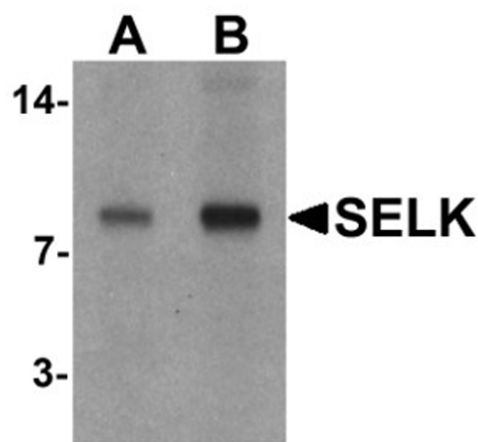


### Immunofluorescence Microscopy

Immunofluorescence of SELK.

Tissue: human heart tissue.

Primary Antibody: SELK antibody at 20 µg/mL.



### Western Blot

Western blot analysis of SELK.

Load: A20 cell lysate.

Primary Antibody: SELK antibody at (A) 1 and (B) 2 µg/mL.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.