

**Datasheet for 600-401-EK5****SIK2 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-SIK2 (RABBIT) Antibody - 600-401-EK5 |
| <b>Item No.:</b>     | 600-401-EK5                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                        |
| <b>Reactivity:</b>   | Human, Mouse, Rat                         |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Salt-inducible kinase 2 (SIK2), like its closely related homolog SIK1, belongs AMPK subfamily of the Ser/Thr protein kinase family and negatively regulates CRE-binding protein (CREB) activity by phosphorylating the CREB-specific coactivator transducer of regulated CREB activity (TORC). SIK2 is thought to be part of a signaling cascade that regulates the expression and activity of the insulin-induced genes PGC-1 alpha and UCP-1 in brown adipocytes, impairment of which has been implicated in obesity and insulin resistance in human and animal models. SIK2 has also been reported as a key regulator for neuronal survival after ischemia, suppressing CREB-mediated gene expression after oxygen-glucose deprivation. |
| <b>Synonyms:</b>     | SIK2 Antibody, QIK, SNF1LK2, LOH11CR1I, KIAA0781, QIK, Qin-induced kinase, SIK-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Target Details**

|                        |                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | SIK2                                                                                                                                                                      |
| <b>Reactivity:</b>     | Human, Mouse, Rat                                                                                                                                                         |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                        |
| <b>Immunogen:</b>      | Anti-SIK2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the internal region of human SIK2. |

**Purity/Specificity:** Anti-SIK2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SIK2 antibody is predicted to not cross-react with other SIK protein family members.

**Relevant Links:**

- [UniProtKB - Q9H0K1](#)
- [GeneID - 23235](#)
- [NCBI - EAW67148](#)

## Application Details

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

**Application Note:** Anti-SIK2 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 104 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

**IF:** User Optimized

**WB:** 1 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

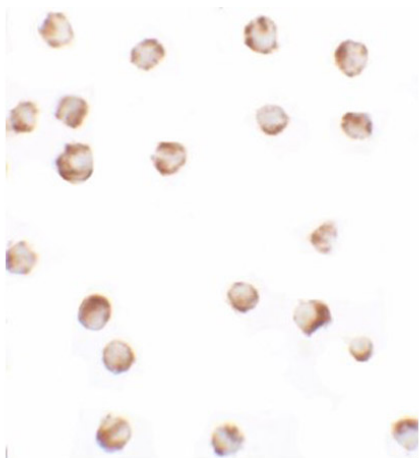
## Shipping & Handling

**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

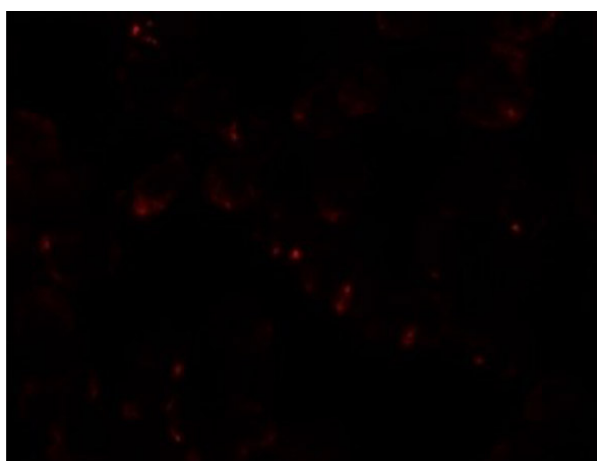


### Immunocytochemistry

Immunocytochemistry of SIK2.

Cell: SW480 cells.

Primary Antibody: SIK2 antibody at 2.5 µg/ml.

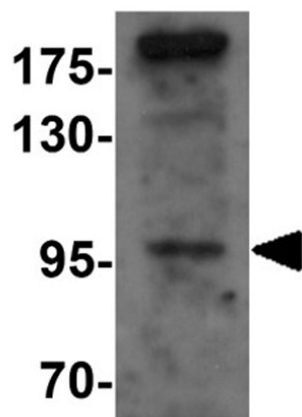


### Immunofluorescence Microscopy

Immunofluorescence of SIK2.

Cell: SW480 cells.

Primary Antibody: SIK2 antibody at 5 µg/ml.



### Western Blot

Western blot analysis of SIK2.

Load: SW480 cell lysate.

Primary Antibody: SIK2 antibody at 1 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.