

Datasheet for 600-401-EJ4**SHOC2 Antibody****Overview**

Description:	Anti-SHOC2 (RABBIT) Antibody - 600-401-EJ4
Item No.:	600-401-EJ4
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SHOC2 protein participates in protein binding / transferase activity in the fibroblast growth factor receptor signaling pathway and Ras protein signal transduction. It is a widely expressed protein composed almost entirely of leucine-rich repeats (LRR), with a lysine-rich sequence at the amino terminus and cytoplasmically localized. SHOC2 acts as a positive modulator of the RAS-MAPK signaling cascade, which is elicited by EGL-15 and LET-23 and mediated by LET-60. SHOC2 together with protein phosphatase 1c (PP1c) forms a highly specific M-Ras effector complex and is essential for activation of the MAPK pathway by growth factors. Furthermore, in tumor cells with Ras gene mutations, inhibition of SHOC2 expression inhibits MAPK, but not PI3K activity. The SHOC2-PP1c holoenzyme provides an attractive therapeutic target for inhibition of the MAPK pathway in cancer. Recent studies show that aberrantly acquired N-myristoylation of SHOC2 causes human disease Noonan-like syndrome with loose anagen hair.
Synonyms:	SHOC2 Antibody, SOC2, SUR8, SIAA0862, KIAA0862, Leucine-rich repeat protein SHOC-2, Protein soc-2 homolog
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SHOC2
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SHOC2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 21 amino acid synthetic peptide near the N-terminus of human SHOC2.
Purity/Specificity:	Anti-SHOC2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SHOC2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UQ13 • GeneID - 8036 • NCBI - NP_031399

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-SHOC2 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 65 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
IHC:	5 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

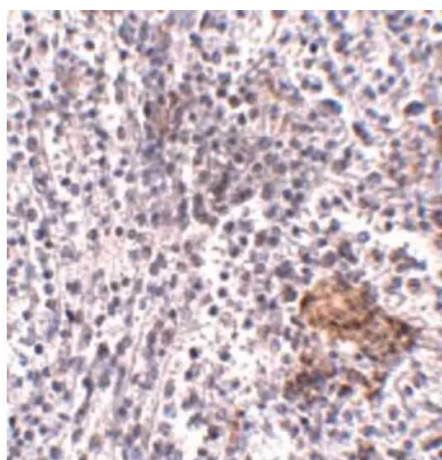
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

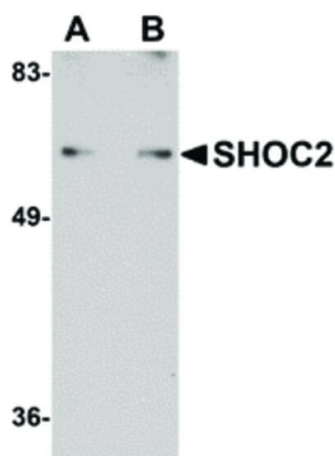
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of SHOC2 antibody. Tissue: human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SHOC2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SHOC2 is nuclear and cytoplasmic. Staining: SHOC2 as precipitated light purple signal with purple nuclear counterstain.



Western Blot

Western Blot of SHOC2 antibody. Lane 1: Jurkat cell lysate with SHOC2 antibody at 1 µg/mL. Lane 2: Jurkat cell lysate with SHOC2 antibody at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 65 kDa, 65 kDa for SHOC2. Other band(s): SHOC2 splice variants and isoforms.

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.