

Datasheet for 600-401-EG9**SESTRIN2 Antibody****Overview**

Description:	Anti-SESTRIN2 (RABBIT) Antibody - 600-401-EG9
Item No.:	600-401-EG9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SESTRIN2, also known as HI95, is a member of the sestrin family of PA26-related proteins and is induced following DNA damage or oxidative stress (1). SESTRIN2 and the related protein SESTRIN1 interact with the NRF2 suppressor KEAP1, the autophagy substrate p62 and the ubiquitin ligase RBX1 to protect cells against oxidative stress by activating NRF2 and promoting the p62-dependent autophagic degradation of KEAP1 (2). SESTRIN2 also negatively regulates TOR signaling by activating AMP-activated protein kinase (AMPK) and TSC2 phosphorylation (3), thereby protecting cells against energetic stress-induced death (4).
Synonyms:	SESTRIN-2, SES2, SEST2, SESN2, HI95
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SESN2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SESTRIN2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the internal region of human SESTRIN2.

Purity/Specificity: Anti-SESTRIN2 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SESTRIN2 antibody is human, mouse and rat reactive. At least two isoforms of SESTRIN2 are known to exist; this antibody will detect both isoforms. SESTRIN2 antibody is predicted to not cross-react with SESTRIN1.

Relevant Links:

- [UniProtKB - P58004](#)
- [GeneID - 83667](#)
- [NCBI - NP_113647](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-SESTRIN2 Antibody has been tested for use in ELISA, immunohistochemistry, immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 54 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

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

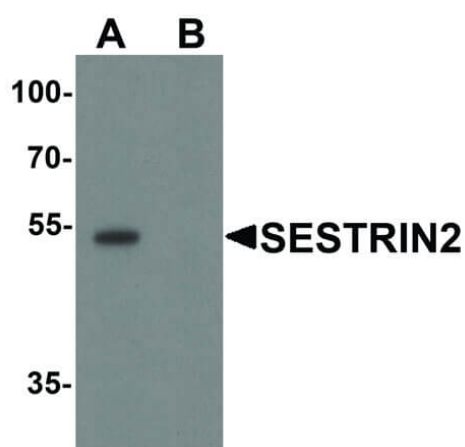
Shipping & Handling

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



Western Blot

Western Blot of Rabbit anti-SESTRIN2 antibody. Lane A: mouse kidney tissue lysate in the absence of blocking peptide. Lane B: mouse kidney tissue lysate in the presence of blocking peptide. Primary antibody: SESTRIN2 antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 47 kDa, 55 kDa for SESTRIN2.

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.