

Datasheet for 600-401-ED6**SAE2 Antibody****Overview**

Description:	Anti-SAE2 (RABBIT) Antibody - 600-401-ED6
Item No.:	600-401-ED6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Small ubiquitin-like modifiers (SUMOs) are a family of small, related proteins (SUMO-1/2/3/4) that can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation, a major regulator of protein function in cellular processes such as nuclear transport, transcriptional regulation, apoptosis and protein stability. This sumoylation is effected by the heterodimeric enzyme SAE1/SAE2 and the SUMO-1-conjugating enzyme Ubch9. The sumoylation pathway mediated by SAE1/SAE2 is distinct from other ubiquitin-like protein (Ubl) pathways.
Synonyms:	SAE2 Antibody, ARX, SAE2, HRIHFB2115, UBLE1B, SUMO-activating enzyme subunit 2, Anthracycline-associated resistance ARX
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	UBA2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SAE2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human SAE2.

Purity/Specificity: Anti-SAE2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SAE2 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9UBT2](#)
- [GeneID - 10054](#)
- [NCBI - NP_005490](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-SAE2 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 71 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: 1:2,500

IF: 5 µg/mL

WB: .25 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

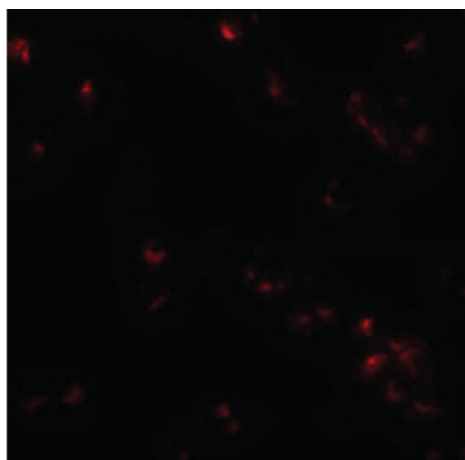
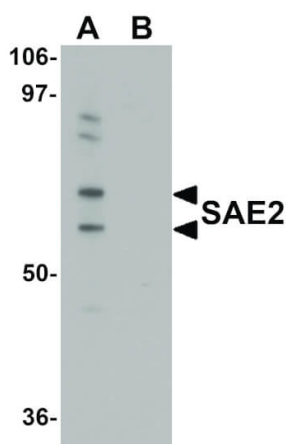
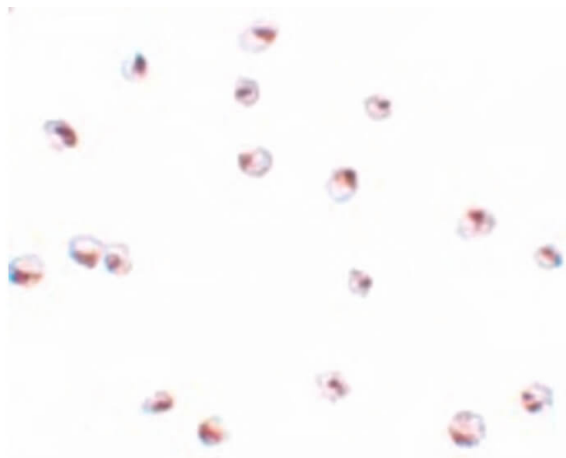
Shipping & Handling

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



Immunohistochemistry

Immunocytochemistry of SAE2 antibody. Tissue: 293 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SAE2 antibody at 4 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SAE2 is nuclear. Staining: SAE2 as precipitated blue signal with brown nuclear counterstain.

Western Blot

Western Blot of SAE2 antibody. Lane 1: 293 lysate in the absence of blocking peptide. Lane 2: 293 lysate in the presence of blocking peptide. Primary Antibody: with SAE2 antibody at 0.25 µg/mL. 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: 71 kDa, 71 kDa for SAE2. Other band(s): SAE2 splice variants and isoforms.

Immunofluorescence Microscopy

Immunofluorescence Microscopy of SAE2 antibody. Tissue: 293 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SAE2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SAE2 is nuclear. Staining: SAE2 as red fluorescent signal.

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.