

Datasheet for 600-401-A36**Sipa1 Antibody****Overview**

Description:	Anti-SIPA1 (RABBIT) Antibody - 600-401-A36
Item No.:	600-401-A36
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Sip1 (signal-induced proliferation associated gene 1) is a mitogen-induced GTPase activating protein (GAP). It exhibits a specific GAP activity for Ras-related regulatory proteins Rap1 and Rap2, but not for Ran or other small GTPases. This protein may also hamper mitogen-induced cell cycle progression when abnormally or prematurely expressed. Sip1 is localized to the perinuclear region. Two alternatively spliced variants encoding the same isoform have been characterized to date.
Synonyms:	rabbit anti-Sipa1 antibody, Sipa-1, Sipa 1, GTPase activating protein Spa 1 antibody, p130 SPA-1 antibody, Signal induced proliferation associated 1 antibody, SPA1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Sipa1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminus of mouse Sip1.
Purity/Specificity:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for mouse Sip1 protein. A BLAST analysis was used to suggest cross-reactivity with Sip1 from mouse, human and rat based on a 100% homology with the immunizing sequence. Cross-reactivity with Sip1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P46062 • NCBI - AAH54824.1 • GeneID - 20469

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
IHC:	1.25-2.5 µg/ml
WB:	1:1,000 - 1:5,000

Formulation

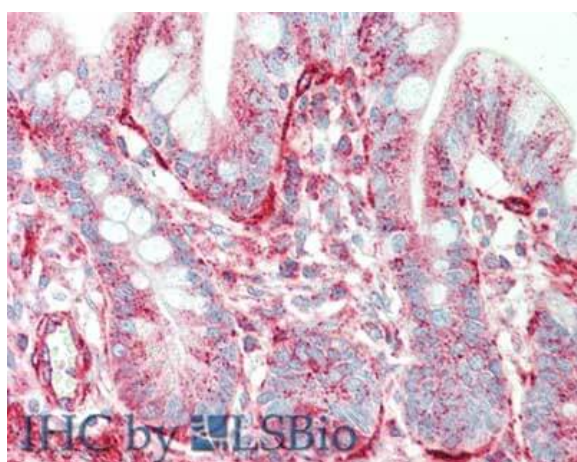
Physical State:	Liquid (sterile filtered)
Concentration:	1.25 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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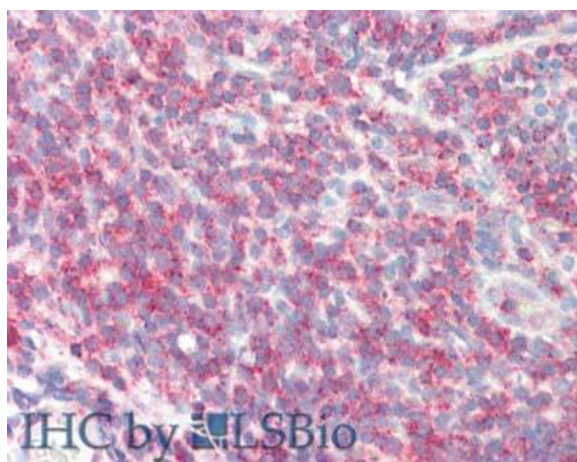
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



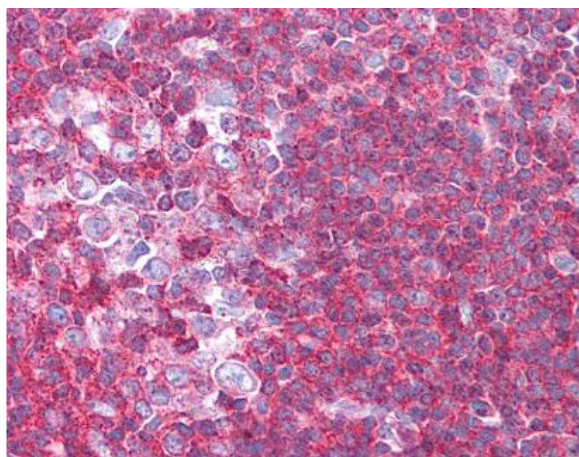
Immunohistochemistry

Immunohistochemistry of rabbit anti-Sipa1 antibody.
Tissue: small intestine. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Sipa1 at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Sipa-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



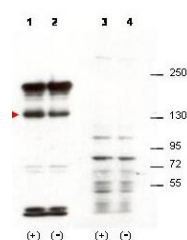
Immunohistochemistry

Immunohistochemistry of rabbit anti-Sipa1 antibody.
Tissue: tonsil. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Sipa1 at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Sipa-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunohistochemistry

Rockland's affinity purified anti-Sipa1 antibody was used at 1.25 ug/ml to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate to strong positive staining of lymphocytes within human tonsil at 40X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.



Western Blot

Western blot using Rockland's affinity purified anti-Sipa1 antibody shows detection of over-expressed Sipa1 in lysates from mouse 3T3 cells transfected with Sipa1 (lane 1). Endogenous Sipa1 is detected in lane 2, which contains lysate from 3T3 cells mock-transfected with LacZGLB, although at a significantly reduced level compared to transfected cells. Lane 3 and 4 are similar to lanes 1 and 2 except the antibody was preincubated with the immunizing peptide prior to reaction with the membrane. The identity of the higher and lower molecular weight bands is unknown. The band at ~130 kDa, indicated by the arrowhead, corresponds to recombinant Sipa1. Primary antibody was used at 1:1250. Personal communication, H. Yang, L. Lukes and K. Hunter, NCI, Bethesda, MD.

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.