

Datasheet for 600-401-EL0**SIP1 Antibody****Overview**

Description:	Anti-SIP1 (RABBIT) Antibody - 600-401-EL0
Item No.:	600-401-EL0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SIP1 is one of the proteins found in the SMN complex, which consists of the survival of motor neuron (SMN) protein and several gemin proteins. The SMN complex is localized to a subnuclear compartment called gems (gemini of coiled bodies) and is required for assembly of spliceosomal snRNPs and for pre-mRNA splicing. SIP1 interacts directly with the SMN and it is required for formation of the SMN complex. A knockout mouse targeting the mouse homolog of this gene exhibited disrupted snRNP assembly and motor neuron degeneration. However, knockdown of the SIP1 mRNA in motor neurons showed normal motor axons while that of SMN mRNA did show abnormal motor axon outgrowth, indicating that SIP1 may have additional roles outside of the SMN complex.
Synonyms:	SIP1 Antibody, SIP1, SIP1-delta, SIP1, Gem-associated protein 2, Component of gems 2, Gemin-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GEMIN2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SIP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the C-terminus of human SIP1.

Purity/Specificity:	Anti-SIP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SIP1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O14893 • GeneID - 8487 • NCBI - AAB82297

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SIP1 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 32 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:	1:5,000 - 1:10,000
IF:	20 µg/mL
WB:	.5-1 µg/mL

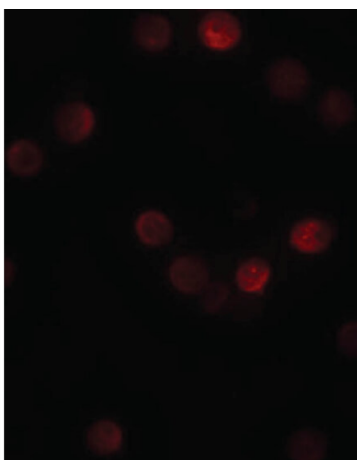
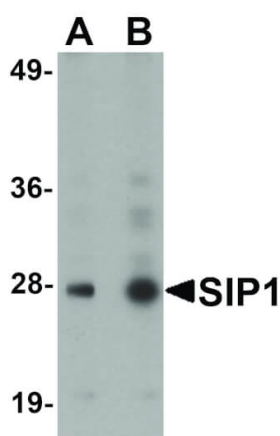
Formulation

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



Immunohistochemistry

Immunocytochemistry of SIP1 antibody. Tissue: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SIP1 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: SIP1 is nuclear and cytoplasmic. Staining: SIP1 as precipitated blue signal with pink nuclear counterstain.

Western Blot

Western Blot of SIP1 antibody. Lane 1: HeLa cell lysate with SIP1 antibody at 0.5 µg/mL. Lane 2: HeLa cell lysate with SIP1 antibody at 1 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: 32 kDa, 28 kDa for SIP1. Other band(s): SIP1 splice variants and isoforms.

Immunofluorescence Microscopy

Immunofluorescence Microscopy of SIP1 antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SIP1 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: SIP1 is nuclear and cytoplasmic. Staining: SIP1 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.