

Datasheet for 600-401-Y58**ARHGAP18 Antibody****Overview**

Description:	Anti-ARHGAP18 (RABBIT) Antibody - 600-401-Y58
Item No.:	600-401-Y58
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	ARHGAP18 is one member of the human RhoGAP family with approximately 80 RhoGAP proteins known to be encoded in the human genome. Rho proteins belong to the Ras superfamily that is composed of over 50 members divided into six families, including Ras, Sar, Rho, Ran, Rab and Arf. Rho GTPases are important regulators of the actin cytoskeleton and consequently influence the shape and migration of cells. ARHGAP18 is linked to Ras, and thus, to EGFR-mediated proliferation, migration and differentiation. ARHGAP18 is precisely contained within chromosome 6q22-24, which has been shown to be linked to schizophrenia, suggesting that ARHGAP18 may play a role in this condition.
Synonyms:	ARHGAP18 Antibody, SENEX, MacGAP, bA307O14.2, Rho GTPase-activating protein 18
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ARHGAP18
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ARHGAP18 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human ARHGAP18.

Purity/Specificity:	Anti-ARHGAP18 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ARHGAP18 from other sources has not been determined.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - Q8N392• GeneID - 93663• NCBI - NP_277050

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ARHGAP18 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 75 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
WB:	1 - 2 µg/mL

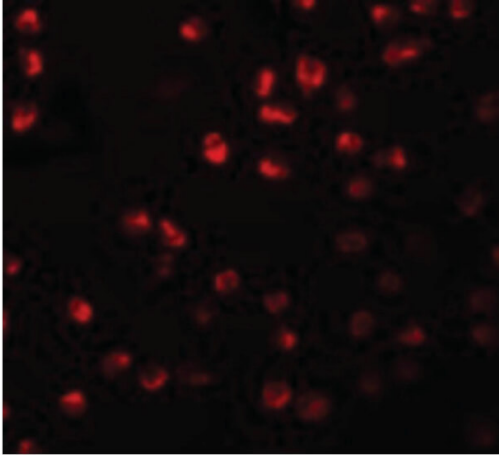
Formulation

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

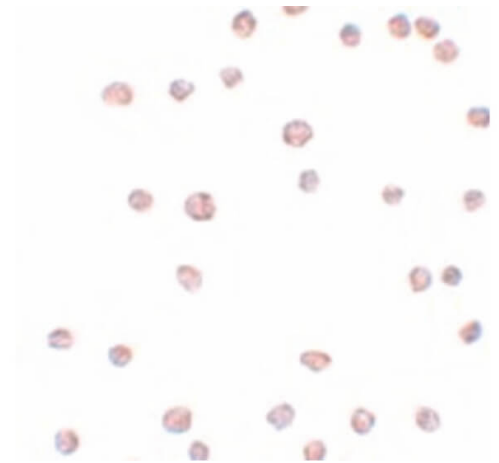
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



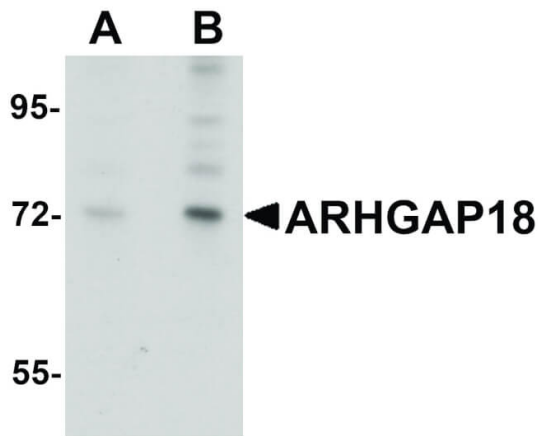
Immunofluorescence Microscopy

Immunofluorescence Microscopy of ARHGAP18 antibody. Tissue: 3T3 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ARHGAP18 antibody at 20 $\mu\text{g}/\text{mL}$ for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARHGAP18 is cytosolic. Staining: ARHGAP18 as red fluorescent signal.



Immunohistochemistry

Immunocytochemistry of ARHGAP18 antibody. Tissue: 3T3 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ARHGAP18 antibody at 2.5 $\mu\text{g}/\text{mL}$ for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARHGAP18 is cytosolic. Staining: ARHGAP18 as precipitated pink signal with blue nuclear counterstain.



Western Blot

Western Blot of ARHGAP18 antibody. Lane 1: 3T3 cell lysate with ARHGAP18 antibody at 1 $\mu\text{g}/\text{mL}$. Lane 2: 3T3 cell lysate with ARHGAP18 antibody at 2 $\mu\text{g}/\text{mL}$. 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: 75 kDa, 72 kDa for ARHGAP18. Other band(s): ARHGAP18 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.