

Datasheet for 100-401-H46**ARFGAP3 Antibody****Overview**

Description:	Anti-ARFGAP3 (RABBIT) Antibody - 100-401-H46
Item No.:	100-401-H46
Size:	100 µL
Applications:	IF, WB
Reactivity:	Human
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. The ArfGAPs are a family of proteins encoded by 31 genes in humans. The function of the ArfGAPs is to regulate the small G protein Arf, a regulator of membrane traffic and actin cytoskeleton. The ArfGAPs have been found to be key regulators of cellular behaviors that involve coordinated actin and membrane remodeling, including protein secretion and migration. Several ArfGAPs are associated with cancer cell invasion and metastasis, and the Arf pathway has been found to be affected in a number of genetic diseases. Although the importance of the ArfGAPs and the Arf pathway for cellular physiology is well recognized, the molecular basis for the function of these proteins has not been established. Reagents for the studies, especially antibodies specific for particular members of the ArfGAP family that can be used for immunoblotting and immunofluorescence, are not available. ArfGAP3 is one of three ArfGAPs thought to be specifically associated with the Golgi apparatus; however, localization has only been done for ectopically expressed recombinant protein and cellular function is still not established. Indeed, there is a growing controversy about the function of ArfGAP3 together with ArfGAP1 and ArfGAP2. Antibodies suitable for immunoprecipitation, immunoblotting and immunofluorescence would be of great value in addressing the controversy and for discovering the potential role of ArfGAP3 in secretion of proteins, such as growth factors, and trafficking of other proteins to the cell surface, such as growth factor receptors and cell adhesion molecules.
Synonyms:	rabbit anti-ArfGAP3 Antibody, ARFGAP1, ADP-ribosylation factor GTPase-activating protein 3, ARF GAP3, Arf-GAP, ArfGAP
Host Species:	Rabbit
Clonality:	Polyclonal

Format: Antiserum

Target Details

Gene Name:	ARFGAP3
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	This whole rabbit serum was prepared by repeated immunizations with a truncated recombinant sequence of ArfGAP3 fused to GST.
Purity/Specificity:	Anti-ArfGAP3 antibody was prepared from monospecific antiserum by delipidation and defibrination. Further purification was used to remove the GST tag. The antibody detects ArfGAP3 in cell lysates. A BLAST analysis was used to suggest cross reactivity with human, monkey, and orangutan for ArfGAP3. Cross-reactivity with AfGAP3 from other sources have not been determined.
Relevant Links:	• UniProtKB - Q9NP61 • NCBI - NP_001135765.1 • GeneID - 26286

Application Details

Tested Applications:	IF, WB
Application Note:	ArfGAP3 has been tested for use in Immunofluorescence and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 57 kDa in size by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
IF:	1:100
IP:	User Optimized
WB:	1:1,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	70mg/mL by Refractometry

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition: Dry Ice

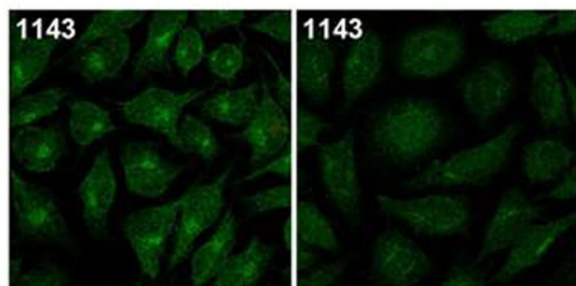
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted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

Expiration: Expiration date is one (1) year from date of receipt.

Images

Control

ArfGAP3 KD

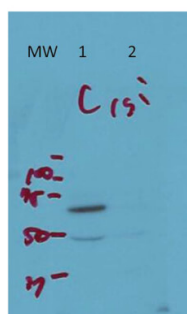


Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit Anti-ArfGAP3 Antibody. Tissue: HeLa Whole Cell. Fixation: MeOH. Antigen retrieval: not required. Primary antibody: ArfGAP3 antibody at 1:100 for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ArfGAP3 is cytoplasmic. Staining: ArfGAP3 as green fluorescent signal.

Western Blot

Western Blot of Rabbit Anti-ArfGAP3 Antibody. Lane 1 (C): HeLa Whole Cell. Lane 2 (si): HeLa Whole Cell siRNA treated. Load: 10 µg per lane. Primary antibody: ArfGAP3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 57 kDa for endogenous Arf-GAP3. Other band(s): non-specific band ~50kDa.



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.