

Product datasheet for **TA396529S**

ARFGAP3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IP, WB
Recommended Dilution:	WB: 1:1,000 IF: 1:100 ELISA: 1:5,000
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This whole rabbit serum was prepared by repeated immunizations with a truncated recombinant sequence of ArfGAP3 fused to GST.
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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	70mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	ADP ribosylation factor GTPase activating protein 3
Database Link:	Entrez Gene 26286 Human Q9NP61

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Background:

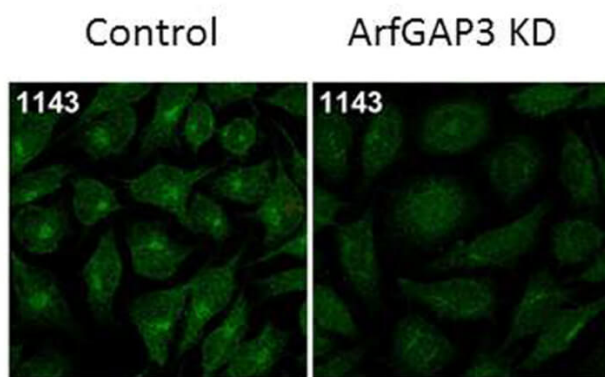
This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. The ArfGAPs are a family of proteins encoded by 31 genes in humans. The function of the ArfGAPs 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

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.

Product images:


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.