Datasheet for ABIN1607598

anti-ARFGAP3 antibody

2 Images

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Overview

Quantity:	100 µL
Target:	ARFGAP3
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	ARFGAP3 Antibody
Immunogen:	Immunogen: This whole rabbit serum was prepared by repeated immunizations with a truncated recombinant sequence of ArfGAP3 fused to GST. Immunogen Type: Recombinant Protein
Cross-Reactivity (Details):	Further purification was used to remove the GST tag.
Characteristics:	Synonyms: rabbit anti-ArfGAP3 Antibody, ARFGAP1, ADP-ribosylation factor GTPase-activating protein 3, ARF GAP3, Arf-GAP, ArfGAP
Purification:	Anti-ArfGAP3 antibody was prepared from monospecific antiserum by delipidation and defibrination.
Sterility:	Sterile filtered

Target Details

Target:	ARFGAP3
Alternative Name:	ARFGAP3 (ARFGAP3 Products)
Background:	Background: This antibody is designed, produced, and validated as part of a collaboration with 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.
Gene ID:	26286
NCBI Accession:	NP_001135765
UniProt:	Q9NP61

Application Details

Application Notes:	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. Western Blot Dilution: 1:1,000 Immunoprecipitation Dilution: User Optimized ELISA Dilution: 1:5,000 IF Microscopy Dilution: 1:100

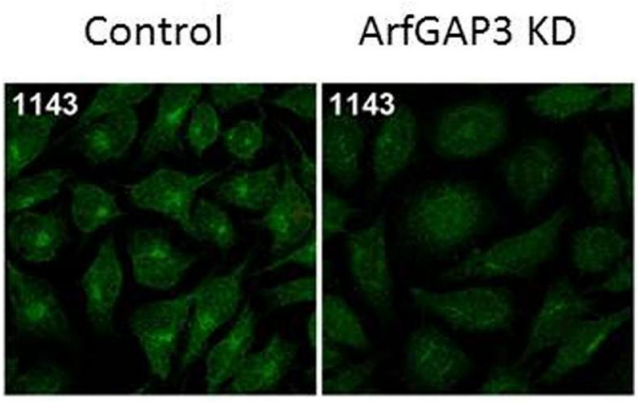
Application Details

Restrictions:	For Research Use only

Handling

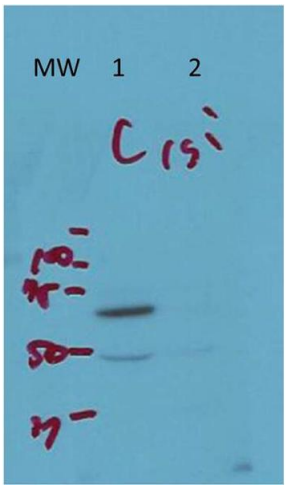
Format:	Liquid
Buffer:	Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Immunofluorescence

Image 1. 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 sinal.



Western Blotting

Image 2. 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: 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.