

Anti-ARFGAP1 Antibody
Catalog # ABO10314**Specification**

Anti-ARFGAP1 Antibody - Product Information

Application	WB
Primary Accession	Q8N6T3
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for ADP-ribosylation factor GTPase-activating protein 1(ARFGAP1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ARFGAP1 Antibody - Additional Information

Gene ID 55738

Other Names

ADP-ribosylation factor GTPase-activating protein 1, ARF GAP 1, ADP-ribosylation factor 1 GTPase-activating protein, ARF1 GAP, ARF1-directed GTPase-activating protein, ARFGAP1, ARF1GAP

Calculated MW

44668 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm . Golgi apparatus . Associates with the Golgi complex. .

Protein Name

ADP-ribosylation factor GTPase-activating protein 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E. coli-derived human ARFGAP1 recombinant protein (Position: M1-Y183). Human ARFGAP1 shares 89.1% and 88.5% amino acid (aa) sequence identity with mouse and rat ARFGAP1, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-ARFGAP1 Antibody - Protein Information

Name ARFGAP1

Synonyms ARF1GAP

Function

GTPase-activating protein (GAP) for the ADP ribosylation factor 1 (ARF1). Involved in membrane trafficking and /or vesicle transport. Promotes hydrolysis of the ARF1-bound GTP and thus, is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles, a prerequisite for vesicle's fusion with target compartment. Probably regulates ARF1-mediated transport via its interaction with the KDELR proteins and TMED2. Overexpression induces the redistribution of the entire Golgi complex to the endoplasmic reticulum, as when ARF1 is deactivated. Its activity is stimulated by phosphoinositides and inhibited by phosphatidylcholine (By similarity).

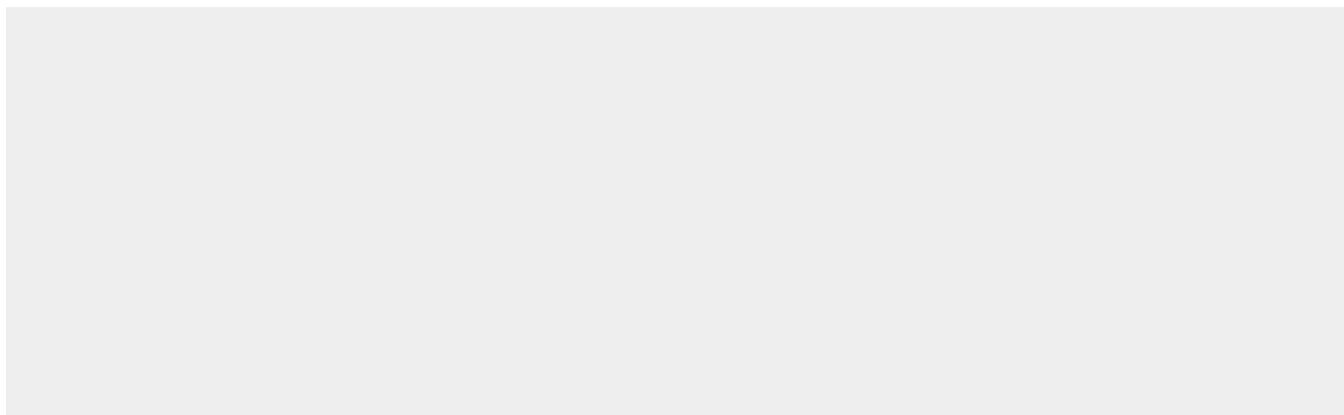
Cellular Location

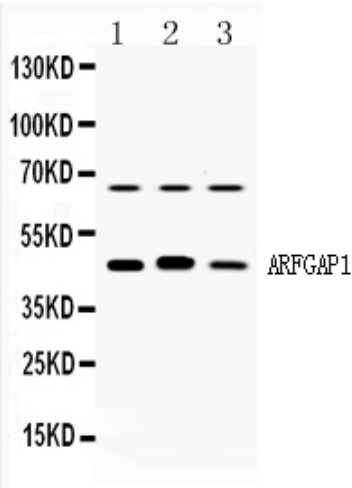
Cytoplasm. Golgi apparatus. Note=Associates with the Golgi complex.

Anti-ARFGAP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ARFGAP1 Antibody - Images



Western blot analysis of ARFGAP1 expression in rat brain extract (lane 1), mouse brain extract (lane 2) and HELA whole cell lysates (lane 3). ARFGAP1 at 45KD was detected using rabbit anti-ARFGAP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10314) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method.

Anti-ARFGAP1 Antibody - Background

ADP-ribosylation factor GTPase-activating protein 1 is an enzyme that in humans is encoded by the ARFGAP1 gene. And this gene is mapped to 20q13.33. The protein encoded by this gene is a GTPase-activating protein, which associates with the Golgi apparatus and which interacts with ADP-ribosylation factor 1. The encoded protein promotes hydrolysis of ADP-ribosylation factor 1-bound GTP and is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles. Dissociation of the coat proteins is required for the fusion of these vesicles with target compartments. The activity of this protein is stimulated by phosphoinositides and inhibited by phosphatidylcholine. Alternative splicing results in multiple transcript variants.