10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-ARFGAP3 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1095a

Specification

Goat Anti-ARFGAP3 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9NP61
Other Accession	NP_001135765, 26286
Reactivity	**Mouse**
Predicted	**Human, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**56928**

Goat Anti-ARFGAP3 Antibody - Additional Information

Gene ID 26286

Other Names
ADP-ribosylation factor GTPase-activating protein 3, ARF GAP 3, ARFGAP3, ARFGAP1

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-ARFGAP3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ARFGAP3 Antibody - Protein Information

Name ARFGAP3

Synonyms ARFGAP1

Function

GTPase-activating protein (GAP) for ADP ribosylation factor 1 (ARF1). Hydrolysis of ARF1-bound GTP may lead to dissociation of coatomer from Golgi-derived membranes to allow fusion with target membranes.

Cellular Location
Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Also found on peripheral punctate structures likely to be endoplasmic reticulum-Golgi intermediate compartment

Tissue Location
Widely expressed. Highest expression in endocrine glands (pancreas, pituitary gland, salivary gland, and prostate) and testis with a much higher expression in the testis than in the ovary

Goat Anti-ARFGAP3 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 Cytomety
- Cell Culture

Goat Anti-ARFGAP3 Antibody - Images

AF1095a staining (2 µg/ml) of mouse brain extracts (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-ARFGAP3 Antibody - Background

The protein encoded by this gene is a GTPase-activating protein (GAP) that associates with the Golgi apparatus and regulates the early secretory pathway of proteins. The encoded protein promotes hydrolysis of ADP-ribosylation factor 1 (ARF1)-bound GTP, which is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles. Dissociation of the coat

proteins is a prerequisite for the fusion of these vesicles with target compartments. The activity of this protein is sensitive to phospholipids. Multiple transcript variants encoding different isoforms have been found for this gene. This gene was originally known as ARFGAP1, but that is now the name of a related but different gene.

Goat Anti-ARFGAP3 Antibody - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
Three homologous ArfGAPs participate in coat protein I-mediated transport. Saitoh A, et al. J Biol Chem, 2009 May 15. PMID 19299515.
Differential roles of ArfGAP1, ArfGAP2, and ArfGAP3 in COPI trafficking. Weimer C, et al. J Cell Biol, 2008 Nov 17. PMID 19015319.
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.
Two human ARFGAPs associated with COP-I-coated vesicles. Frigerio G, et al. Traffic, 2007 Nov. PMID 17760859.