

ARFGAP3 Rabbit pAb

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Product Information

ApplicationWBPrimary AccessionQ9NP61ReactivityMouse, Rat

Predicted Human, Chicken, Dog, Sheep

Host Rabbit
Clonality Polyclonal
Calculated MW 56928
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human ARFGAP3

Epitope Specificity 412-516/516

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm. Golgi apparatus membrane. Also found on peripheral punctate

structures likely to be endoplasmic reticulum-Golgi intermediate

compartment.

SIMILARITY Contains 1 Arf-GAP domain.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions ARFGAP1 (ADP-ribosylation factor GTPase-activating protein 1), ARFGAP2

(ADP-ribosylation factor GTPase-activating protein 2) and ARFGAP3

(ADP-ribosylation factor GTPase-activating protein 3) are GTPase-activating proteins (GAP) that are associated with the Golgi apparatus and interact with ADP-ribosylation factor 1 (ARF). These proteins promote hydrolysis of ARF-bound GTP and are 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 ARFGAP1, ARFGAP2 and ARFGAP3 is stimulated by phosphoinosides

and inhibited by phosphatidylcholine. The genes encoding ARFGAP1,

ARFGAP2 and ARFGAP3 map to human chromosomes 20q13.33, 11p11.2 and

22q13.2, respectively.

Additional Information

Gene ID 26286

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

ARFGAP1

Target/Specificity 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.

Dilution WB=1:500-2000

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

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

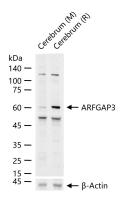
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Background

ARFGAP1 (ADP-ribosylation factor GTPase-activating protein 1), ARFGAP2 (ADP-ribosylation factor GTPase-activating protein 2) and ARFGAP3 (ADP-ribosylation factor GTPase-activating protein 3) are GTPase-activating proteins (GAP) that are associated with the Golgi apparatus and interact with ADP-ribosylation factor 1 (ARF). These proteins promote hydrolysis of ARF-bound GTP and are 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 ARFGAP1, ARFGAP2 and ARFGAP3 is stimulated by phosphoinosides and inhibited by phosphatidylcholine. The genes encoding ARFGAP1, ARFGAP2 and ARFGAP3 map to human chromosomes 20q13.33, 11p11.2 and 22q13.2, respectively.

Images



25 ug total protein per lane of various lysates (see on figure) probed with ARFGAP3 polyclonal antibody, unconjugated (AP54870) at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.