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ARFGAP3 Rabbit pAb

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Catalog # AP54870

Product Information

Application	WB
Primary Accession	Q9NP61
Reactivity	Rat, Mouse
Predicted	Dog, Human, Chicken, 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.
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
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.

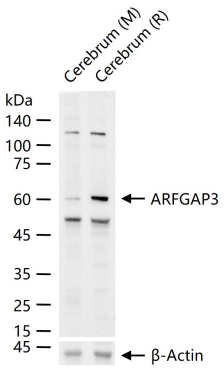
Protein Information

Name	ARFGAP3
Synonyms	ARFGAP1
Function	GTPase-activating protein (GAP) for ADP ribosylation factor 1 (ARF1), which is essential for COPI vesicle formation and retrograde transport between the Golgi and the endoplasmic reticulum (PubMed:11172815, PubMed:20858901). Hydrolysis of ARF1-bound GTP leads to dissociation of coatomer from Golgi-derived membranes to allow fusion with target membranes (PubMed:11172815, PubMed:20858901). Promotes the proper assembly of the COPI coat lattice, rather than just acting as a simple curvature-dependent GAP like ARFGAP1 (PubMed:20858901).
Cellular Location	Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm 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

Background

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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'.