10320 Camino Santa Fe, Suite G
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ARF1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5871c

Specification

ARF1 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P84077
Other Accession	P61206, P61205, P61204, Q5E9I6, P84082, Q8BSL7, P84081, P51643, P84079, P84078, Q4R5P2, P84080, NP_001019398.1, NP_001649.1, NP_001019399.1, NP_001019397.1
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse, Rat, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**20697**
Antigen Region	**80-106**

ARF1 Antibody (Center) - Additional Information

Gene ID 375

Other Names
ADP-ribosylation factor 1, ARF1

Target/Specificity
This ARF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 80-106 amino acids from the Central region of human ARF1.

Dilution
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
ARF1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ARF1 Antibody (Center) - Protein Information

Name ARF1

Function Small GTPase involved in protein trafficking between different compartments (PubMed:8253837). Modulates vesicle budding and uncoating within the Golgi complex (PubMed:8253837). In its GTP-bound form, triggers the recruitment of coatomer proteins to the Golgi membrane (PubMed:8253837). The hydrolysis of ARF1-bound GTP, which is mediated by ARFGAPs proteins, is required for dissociation of coat proteins from Golgi membranes and vesicles (PubMed:8253837). The GTP- bound form interacts with PICK1 to limit PICK1-mediated inhibition of Arp2/3 complex activity; the function is linked to AMPA receptor (AMPAR) trafficking, regulation of synaptic plasticity of excitatory synapses and spine shrinkage during long-term depression (LTD) (By similarity). Plays a key role in the regulation of intestinal stem cells and gut microbiota, and is essential for maintaining intestinal homeostasis (By similarity). Also plays a critical role in mast cell expansion but not in mast cell maturation by facilitating optimal mTORC1 activation (By similarity).

Cellular Location
Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Synapse, synaptosome {ECO:0000250|UniProtKB:P84079}. Postsynaptic density {ECO:0000250|UniProtKB:P84079}. Note=In the GDP-bound form, associates transiently with the membranes via its myristoylated N-terminus where guanine nucleotide-exchange factor (GEF)-mediated nucleotide exchange occurs (By similarity). Following nucleotide exchange, the GTP-bound form undergoes a conformational change, leading to the exposure of a myristoylated N-terminal amphipathic helix that provides stable membrane anchorage (By similarity). {ECO:0000250|UniProtKB:P84080}

ARF1 Antibody (Center) - 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

ARF1 Antibody (Center) - Images

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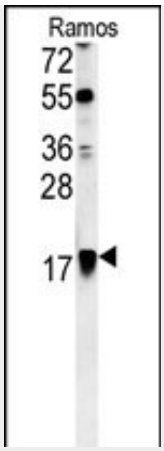
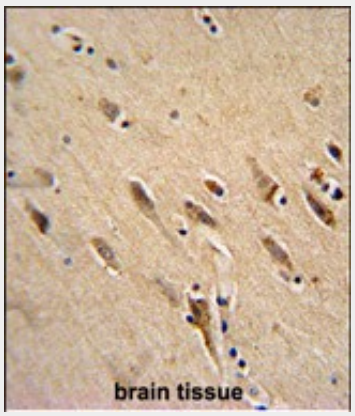


ARF1 Antibody (Center) (Cat. #AP5871c) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the ARF1 antibody detected the ARF1 protein (arrow).



ARF1 Antibody (Center) (Cat. #AP5871c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ARF1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.