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ARF1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5871c

Product Information

Application	WB, IHC-P, 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
Clone Names	RB22418
Calculated MW	20697
Antigen Region	80-106

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	WB~~1:1000 IHC-P~~1:100~500 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.

Protein Information

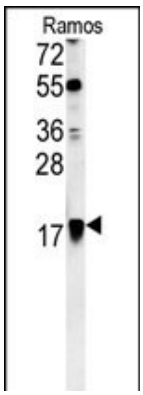
Name	ARF1
Function	Small GTPase involved in protein trafficking between different

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).

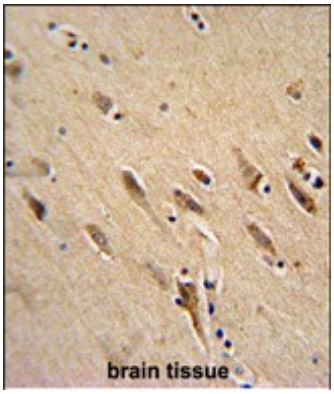
Cellular Location

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}

Images



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.