

KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1181

Product Information

Application	WB, FC, ICC
Primary Accession	P84077
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3155
Calculated MW	20697
Gene Name	ARF1
Aliases	ARF1; ADP Ribosylation Factor 1; ADP-Ribosylation Factor 1; EC 3.6.5.2; PVNH8
Immunogen	A synthesized peptide derived from human ARF1

Additional Information

Gene ID	375
Other Names	ADP-ribosylation factor 1, 3.6.5.2, ARF1

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 coatamer 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 (AMPA) 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}

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