

Anti-ARF1 Rabbit Monoclonal Antibody

Catalog # ABO13442

Specification

Anti-ARF1 Rabbit Monoclonal Antibody - Product Information

Application WB, IHC, FC
Primary Accession P84077
Host Rabbit
Isotype Rabbit IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

Description

Anti-ARF1 Rabbit Monoclonal Antibody . Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-ARF1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 375

Other Names

ADP-ribosylation factor 1, 3.6.5.2, ARF1

Calculated MW 20697 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
FC 1:50

Subcellular Localization

Golgi apparatus. Cytoplasm, perinuclear region. Cell junction, synapse, synaptosome. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Membrane; Lipid- anchor.

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human ARF1

Purification

Affinity-chromatography

Storage Store at -20°C for one year. For short term

storage and frequent use, store at 4°C for

up to one month. Avoid repeated

freeze-thaw cycles.

Anti-ARF1 Rabbit Monoclonal Antibody - 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}

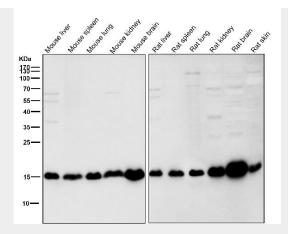
Anti-ARF1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

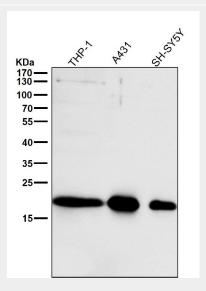
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cvtometv
- Cell Culture

Anti-ARF1 Rabbit Monoclonal Antibody - Images

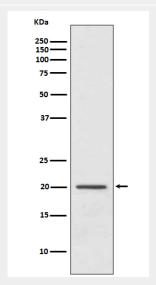




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of ARF1 expression in HEK293 cell lysate.