

**ARF1 Antibody**  
**Rabbit mAb**  
**Catalog # AP90794****Specification**

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**ARF1 Antibody - Product Information**

|                                   |                        |
|-----------------------------------|------------------------|
| Application                       | WB, IHC, FC            |
| Primary Accession                 | <a href="#">P84077</a> |
| Reactivity                        | Rat                    |
| Clonality                         | Monoclonal             |
| <b>Other Names</b>                |                        |
| ADP Ribosylation Factor 1; ARF 1; |                        |

|               |            |
|---------------|------------|
| Isotype       | Rabbit IgG |
| Host          | Rabbit     |
| Calculated MW | 20697 Da   |

**ARF1 Antibody - Additional Information**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dilution                     | WB~~1:1000<br>IHC~~1:100~500<br>FC~~1:10~50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purification                 | Affinity-chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                    | A synthesized peptide derived from human ARF1                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Description                  | Stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking as activators of phospholipase D. GTP-binding protein that functions as an allosteric activator of the cholera toxin catalytic subunit, an ADP-ribosyltransferase. Involved in protein trafficking among different compartments. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage Condition and Buffer |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**ARF1 Antibody - Protein Information****Name** ARF1**Function**

Small GTPase involved in protein trafficking between different compartments (PubMed:<a href="http://www.uniprot.org/citations/8253837" target="\_blank">8253837</a>). Modulates vesicle budding and uncoating within the Golgi complex (PubMed:<a href="http://www.uniprot.org/citations/8253837" target="\_blank">8253837</a>). In its GTP-bound form, triggers the recruitment of coatomer proteins to the Golgi membrane

(PubMed:<a href="http://www.uniprot.org/citations/8253837" target="\_blank">8253837</a>). 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:<a href="http://www.uniprot.org/citations/8253837" target="\_blank">8253837</a>). 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

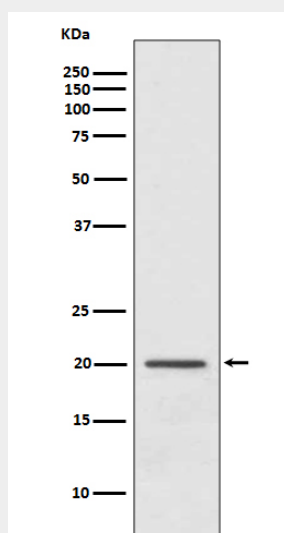
Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Synapse, synaptosome {ECO:0000250|UniProtKB:P84079}. Postsynaptic density {ECO:0000250|UniProtKB:P84079}. Note=In the GDP-bound form, associates transiently with the membranes via its myristoylated N-terminus where guanine nucleotide-exchange 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}

#### ARF1 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 Cytometry](#)
- [Cell Culture](#)

#### ARF1 Antibody - Images



Western blot analysis of ARF1 expression in HEK293 cell lysate.