

**ADP - Ribosylation Factor 1, ARF1 (2 - 17)**  
**Synthetic Peptide**  
**Catalog # SP2252b****Specification**

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**ADP - Ribosylation Factor 1, ARF1 (2 - 17) - Product Information**

Primary Accession [P84079](#)  
Other Accession [Q4R5P2](#), [P84077](#), [P84078](#), [P84080](#)  
Sequence [NH2-GNIFANLFGKGLFGKKE-COOH](#)

**ADP - Ribosylation Factor 1, ARF1 (2 - 17) - Additional Information**

**Gene ID** 64310

**Other Names**

ADP-ribosylation factor 1, Arf1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ADP - Ribosylation Factor 1, ARF1 (2 - 17) - Protein Information**

**Name** Arf1

**Function**

Small GTPase involved in protein trafficking between different compartments (By similarity). Modulates vesicle budding and uncoating within the Golgi complex (By similarity). In its GTP-bound form, triggers the recruitment of coatamer proteins to the Golgi membrane (By similarity). The hydrolysis of ARF1-bound GTP, which is mediated by ARFGAPs proteins, is required for dissociation of coat proteins from Golgi membranes and vesicles (By similarity). 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) (PubMed:<a href="http://www.uniprot.org/citations/23889934" target="\_blank">23889934</a>). Plays a key role in the regulation of intestinal stem cells and gut microbiota, and is essential for maintaining intestinal homeostasis (By similarity). Plays also 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 {ECO:0000250|UniProtKB:P84080}; Cytoplasmic side Synapse, synaptosome. Postsynaptic density. 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}

#### **ADP - Ribosylation Factor 1, ARF1 (2 - 17) - Images**