

ADP - Ribosylation Factor 1, ARF1 (2 - 17)
Synthetic Peptide
Catalog # SP2252a**Specification**

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

Primary Accession	Q4R5P2
Other Accession	P84079 , P84077 , P84078 , P84080
Sequence	NH2-GNIFANLFKGLFGKKE-COOH

ADP - Ribosylation Factor 1, ARF1 (2 - 17) - Additional Information**Gene ID** 101926228**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. Modulates vesicle budding and uncoating within the Golgi complex. In its GTP-bound form, triggers the recruitment of coatamer proteins to the Golgi membrane. 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) (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). 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 {ECO:0000250|UniProtKB:P84077}; Lipid-anchor {ECO:0000250|UniProtKB:P84077}; Cytoplasmic side {ECO:0000250|UniProtKB:P84077}. 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. 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 {ECO:0000250|UniProtKB:P84080}

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