ARF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARF1, Polyclonal Antibody
Full Product Name	ARF1 Antibody, Biotin conjugated
Product Gene Name	anti-ARF1 antibody
Product Synonym Names	ADP-ribosylation factor 1; ARF1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ARF1 (MBS7051969) Biotin Conjugated Antibody: ARF1 (MBS7051972)
Molecular Weight	20,697 Da
OMIM	M36340 mRNA
3D Structure	ModBase 3D Structure for P84077
Immunogen	Recombinant Human ADP-ribosylation factor 1 protein (2-181AA)
Conjugation	Biotin
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ARF1 antibody	ELISA (EIA)
Related Product Information for anti-ARF1 antibody	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. Modulates vesicle budding and uncoating within the Golgi complex. Deactivation induces the redistribution of the entire Golgi complex to the endoplasmic reticulum, suggesting a crucial role in protein trafficking. In its GTP-bound form, its triggers the association with coat proteins with 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. 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 plasicity of excitatory synapses and spine shrinkage during long-term depression (LTD).
Other Notes	Small volumes of anti-ARF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ARF1 purchase	MBS7051972 is an antibody targeting ARF1. Also known as ARF1 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARF1. It may not necessarily be applicable to this product.

NCBI GI #	66879660
NCBI GeneID	375
NCBI Accession #	NP_001019397.1
UniProt Primary Accession #	P84077
UniProt Secondary Accession #	P10947; P32889
UniProt Related Accession #	P84077
GenBank Nucleotide #	NM_001024226.1
NCBI Official Full Name	ADP-ribosylation factor 1
NCBI Official Synonym Full Names	ADP ribosylation factor 1
NCBI Official Symbol	ARF1
UniProt Protein Name	ADP-ribosylation factor 1
Protein Family	ADP-ribosylation factor
UniProt Gene Name	ARF1
NCBI Protein Information	ADP-ribosylation factor 1
NCBI Summary for ARF1	ADP-ribosylation factor 1 (ARF1) is a member of the human ARF gene family. The family members encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking as activators of phospholipase D. The gene products, including 6 ARF proteins and 11 ARF-like proteins, constitute a family of the RAS superfamily. The ARF proteins are categorized as class I (ARF1, ARF2 and ARF3), class II (ARF4 and ARF5) and class III (ARF6), and members of each class share a common gene organization. The ARF1 protein is localized to the Golgi apparatus and has a central role in intra-Golgi transport. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ARF1	ARF1: 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. Modulates vesicle budding and uncoating within the Golgi complex. Deactivation induces the redistribution of the entire Golgi complex to the endoplasmic reticulum, suggesting a crucial role in protein trafficking. In its GTP-bound form, its triggers the association with coat proteins with 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. Belongs to the small GTPase superfamily. Arf family. Protein type: G protein; G protein, monomeric; G protein, monomeric, ARF; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1q42.13 Cellular Component: cytosol; focal adhesion; Golgi membrane; leading edge; plasma membrane Molecular Function: GTPase activity; protein binding; receptor signaling protein activity Biological Process: antigen processing and presentation of exogenous peptide antigen via MHC class II; cellular copper ion homeostasis; phosphatidylinositol biosynthetic process; post-Golgi vesicle-mediated transport; regulation of defense response to virus by virus; regulation of receptor internalization
Research Articles on ARF1	**1.** observations indicate that Arf1 and Arf3 as well as Arf6 play important roles in cytokinesis.
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