ARF1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	ARF1, Blocking Peptide
Full Product Name	ARF1 Blocking Peptide
Product Gene Name	ARF1 blocking peptide
Product Synonym Names	ADP Ribosylation Factor 1; ADP-ribosylation factor 1; ARF 1; ARF1; ARF1_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ARF1 peptide (MBS9626950) is used for blocking the activity of ARF1 antibody (MBS9608238)
Molecular Weight	20,697 Da
OMIM	103180
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for ARF1 blocking peptide	Blocking/Control
Related Product Information for ARF1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of ARF1 blocking peptide 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	MBS9626950 is a blocking peptide targeting ARF1.

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
UniProt Entry Name	ARF1_HUMAN
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, ARF; Motility/polarity/chemotaxis; G protein, monomeric Chromosomal Location of Human Ortholog: 1q42 Cellular Component: Golgi membrane; postsynaptic membrane; neuron projection; sarcomere; focal adhesion; perinuclear region of cytoplasm; postsynaptic density; plasma membrane; cytosol Molecular Function: GTPase activity; protein binding; GTP binding; receptor signaling protein activity Biological Process: protein transport; cellular copper ion homeostasis; COPI coating of Golgi vesicle; viral reproduction; regulation of receptor internalization; small GTPase mediated signal transduction; phospholipid metabolic process; phosphatidylinositol biosynthetic process; retrograde vesicle-mediated transport, Golgi to ER; antigen processing and presentation of exogenous peptide antigen via MHC class II; post-Golgi vesicle-mediated transport; regulation of defense response to virus by virus
Research Articles on ARF1	**1.** Structural modeling and cellular studies show that EspG induces bidirectional traffic arrest by tethering vesicles through select ARF1-GTP/effector complexes and local inactivation of Rab1.
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