ARF1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	ARF1, Lysate
Full Product Name	Human ARF1 Protein Lysate
Product Gene Name	ARF1 lysate
Product Synonym Names	ARF1; OTTHUMP00000035715; ADP-ribosylation factor 1
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	20,697 Da
OMIM	103180
3D Structure	ModBase 3D Structure for P84077
Related Product Information for ARF1 lysate	Human ARF1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of ARF1 lysate 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	MBS137432 is a lysate targeting ARF1. Also known as Human ARF1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

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

NCBI GI #	4502201
NCBI GeneID	375
NCBI Accession #	NP_001649
UniProt Primary Accession #	P84077
UniProt Secondary Accession #	P10947; P32889
UniProt Related Accession #	P84077
GenBank Nucleotide #	NM_001658
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.** ARF1 is a critical regulator in prostate cancer progression
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