ARL3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARL3, Polyclonal Antibody
Full Product Name	ARL3 Conjugated Antibody
Product Gene Name	anti-ARL3 antibody
Product Synonym Names	ARFL3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total ARL3 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	20
OMIM	604695
3D Structure	ModBase 3D Structure for P36405
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human ADP-ribosylation factor-like 3
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ARL3 antibody	Most Applications
Application Notes for anti-ARL3 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ARL3 antibody	ADP-ribosylation factor-like 3 is a member of the ADP-ribosylation factor family of GTP-binding proteins. ARL3 binds guanine nucleotides but lacks ADP-ribosylation factor activity. Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP). Required for normal cytokinesis and cilia signaling. Requires assistance from GTPase-activating proteins (GAPs) like RP2 and PDE6D, in order to cycle between inactive GDP-bound and active GTP-bound forms.
Other Notes	Small volumes of anti-ARL3 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 ARL3 purchase	MBS9447868 is an antibody targeting ARL3. Also known as ARL3 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARL3. It may not necessarily be applicable to this product.

NCBI GI #	242247193
NCBI GeneID	10603
NCBI Accession #	NP_066189
UniProt Primary Accession #	P36405
UniProt Related Accession #	O14492
GenBank Nucleotide #	NP_066189.3
NCBI Official Full Name	SH2B adapter protein 2 isoform 1
NCBI Official Synonym Full Names	SH2B adaptor protein 2
NCBI Official Symbol	SH2B2
NCBI Official Synonym Symbols	APS
UniProt Protein Name	ADP-ribosylation factor-like protein 3
Protein Family	ADP-ribosylation factor-like protein
UniProt Gene Name	ARL3
UniProt Synonym Gene Names	ARFL3
UniProt Entry Name	ARL3_HUMAN
NCBI Protein Information	SH2B adapter protein 2
NCBI Summary for ARL3	The protein encoded by this gene is expressed in B lymphocytes and contains pleckstrin homology and src homology 2 (SH2) domains. In Burkitt's lymphoma cell lines, it is tyrosine-phosphorylated in response to B cell receptor stimulation. Because it binds Shc independent of stimulation and Grb2 after stimulation, it appears to play a role in signal transduction from the receptor to the Shc/Grb2 pathway. [provided by RefSeq, Jun 2009]
UniProt Comments for ARL3	ARL3: Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP). Required for normal cytokinesis and cilia signaling. Requires assistance from GTPase- activating proteins (GAPs) like RP2 and PDE6D, in order to cycle between inactive GDP-bound and active GTP-bound forms. Required for targeting proteins such as NPHP3 to the ciliary membrane by releasing myristoylated NPHP3 from UNC119B cargo adapter into the cilium. Does not act as an allosteric activator of the cholera toxin catalytic subunit. Belongs to the small GTPase superfamily. Arf family. Protein type: Cell cycle regulation; Cytoskeletal; G protein, monomeric, ARF; G protein, monomeric Chromosomal Location of Human Ortholog: 10q23.3 Cellular Component: Golgi membrane; Golgi apparatus; centrosome; cytoplasmic microtubule; spindle microtubule; midbody; nucleus; photoreceptor connecting cilium Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding; microtubule binding; metal ion binding Biological Process: photoreceptor cell development; protein transport; smoothened signaling pathway; metabolic process; organelle organization and biogenesis; small GTPase mediated signal transduction; intraflagellar transport; cytokinesis; post-Golgi vesicle-mediated transport; kidney development
Research Articles on ARL3	**1.** Studies indicate that insulin receptor (IR) and IGF Type 1 Receptor (IGFR) have been identified as important partners of Grb10/14 and SH2B1/B2 adaptors.

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