ARL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARL2, Polyclonal Antibody
Full Product Name	ARL2, CT (ARL2, ADP-ribosylation factor-like protein 2) (MaxLight 490)
Product Gene Name	anti-ARL2 antibody
Product Synonym Names	ARL2; ADP-ribosylation factor-like protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	184
OMIM	601175
3D Structure	ModBase 3D Structure for P36404
Immunogen	ARL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human ARL2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ARL2 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-ARL2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ARL2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-ARL2 antibody	The ADP-ribosylation factor (ARF) genes are small GTP-binding proteins of the RAS superfamily. ARL2 is a member of a functionally distinct group of ARF-like genes. This protein is a component of a regulated secretory pathway involved in Ca(2+)-dependent release of acetylcholine.
Product References and Citations for anti-ARL2 antibody	Antoshechkin, I., et al., Dev. Cell 2(5):579-591 (2002). Bhamidipati, A., et al., J. Cell Biol. 149(5):1087-1096 (2000). Guru, S.C., et al., Genome Res. 7(7):725-735 (1997). Clark, J., et al., Proc. Natl. Acad. Sci. U.S.A. 90(19):8952-8956 (1993).

Other Notes	Small volumes of anti-ARL2 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 ARL2 purchase	MBS6275133 is an antibody targeting ARL2. Also known as ARL2, CT (ARL2, ADP-ribosylation factor-like protein 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARL2. It may not necessarily be applicable to this product.

NCBI GI #	116241255
NCBI GeneID	402
NCBI Accession #	P36404.4
UniProt Primary Accession #	P36404
UniProt Secondary Accession #	Q9BUK8; G3V184
UniProt Related Accession #	P36404
NCBI Official Full Name	ADP-ribosylation factor-like protein 2
NCBI Official Synonym Full Names	ADP-ribosylation factor-like 2
NCBI Official Symbol	ARL2
NCBI Official Synonym Symbols	ARFL2
UniProt Protein Name	ADP-ribosylation factor-like protein 2
Protein Family	ADP-ribosylation factor-like protein
UniProt Gene Name	ARL2
UniProt Entry Name	ARL2_HUMAN
NCBI Protein Information	ADP-ribosylation factor-like protein 2
NCBI Summary for ARL2	This gene encodes a small GTP-binding protein of the RAS superfamily which functions as an ADP-ribosylation factor (ARF). The encoded protein is one of a functionally distinct group of ARF-like genes. [provided by RefSeq, Jul 2008]
UniProt Comments for ARL2	ARL2: 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). GTP-binding protein that does not act as an allosteric activator of the cholera toxin catalytic subunit. Regulates formation of new microtubules and centrosome integrity. Prevents the TBCD-induced microtubule destruction. Participates in association with TBCD, in the disassembly of the apical junction complexes. Antagonizes the effect of TBCD on epithelial cell detachment and tight and adherens junctions disassembly. Together with ARL2, plays a role in the nuclear translocation, retention and transcriptional activity of STAT3. Component of a regulated secretory pathway involved in Ca(2+)-dependent release of acetylcholine. Required for normal progress through the cell cycle. Belongs to the small GTPase superfamily. Arf family. Protein type: G protein, monomeric, ARF; Mitochondrial; G protein, monomeric Chromosomal Location of Human Ortholog: 11q13 Cellular Component: centrosome; mitochondrial intermembrane space; nucleus; lateral plasma membrane Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding; GTPase inhibitor activity Biological Process: tubulin folding; centrosome organization and biogenesis; metabolic process; small GTPase mediated signal transduction; positive regulation of microtubule polymerization; maintenance of protein localization in nucleus; cell cycle; regulation of microtubule polymerization
Research Articles on ARL2	**1.** MiR-195 regulates cell apoptosis in a context-dependent manner through directly targeting ARL2.

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