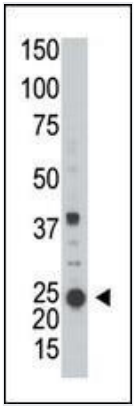
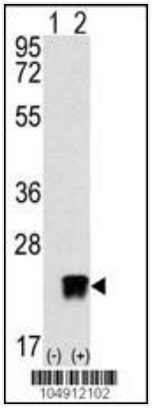
ARL3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

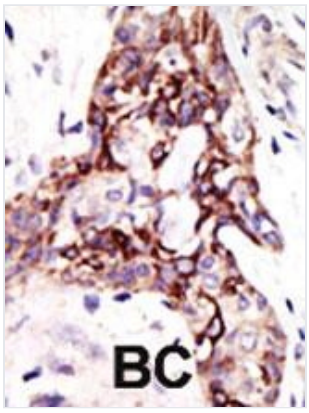
Product Name	ARL3, Polyclonal Antibody
Full Product Name	ARL3, CT (ADP-ribosylation Factor-like Protein 3, ARFL3) (Azide free) (HRP)
Product Gene Name	anti-ARL3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human ARL3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	23.0 kDa (206aa), confirmed by MALDI-TOF
OMIM	604695
3D Structure	ModBase 3D Structure for P36405
Immunogen	Synthetic peptide selected from the C-terminal region of human ARL3 (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-ARL3 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-ARL3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-ARL3 antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-ARL3 antibody	MBS6464026 is an antibody targeting ARL3. Also known as ARL3, CT (ADP-ribosylation Factor-like Protein 3, ARFL3) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ARL3 antibody	1. Cavenagh, M.M., et al., J. Biol. Chem. 269(29):18937-18942 (1994). 2. Adams, M.D., et al., Nature 377(6547 Suppl), 3-174 (1995). 3. Kim, H.S., Cytogenet. Cell Genet. 83(3-4), 246 (1998). 4. Wistow, G., et al., Mol. Vis. 8, 196-204 (2002).
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.



Western Blot (WB) of anti-ARL3 antibody
Western blot analysis of anti-ARL3 in A2058 cell line lysate (35ug/lane).ARL3 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-ARL3 antibody
Western blot analysis of ARL3 (arrow) using rabbit polyclonal ARL3 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ARL3 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-ARL3 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

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

NCBI GI #	4757774
NCBI GeneID	403
NCBI Accession #	NP_004302
UniProt Primary Accession #	P36405
UniProt Secondary Accession #	Q53X83; Q5JSM2; B2R6C7
UniProt Related Accession #	P36405
GenBank Nucleotide #	NM_004311.3
NCBI Official Full Name	ADP-ribosylation factor-like protein 3
NCBI Official Synonym Full Names	ADP ribosylation factor like GTPase 3
NCBI Official Symbol	ARL3
NCBI Official Synonym Symbols	ARFL3
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	ADP-ribosylation factor-like protein 3
NCBI Summary for ARL3	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. [provided by RefSeq, Jul 2008]
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.** this study identifies ARL3 as a key player in prenylated protein trafficking in rod photoreceptor cells and establishes the potential role for ARL3 dysregulation in the pathogenesis of RP2-related forms of XLRP
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