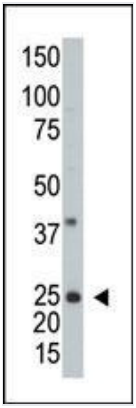
# ARL3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ARL3, Polyclonal Antibody |
| **Full Product Name** | ARL3, NT (ADP-ribosylation Factor-like Protein 3, ARFL3) (Biotin) |
| **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 Biotin. |
| **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. 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 N-terminal region of human ARL3 (KLH). |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-ARL3 antibody** | Antibodies; GTPase; Rab; Ras; Rho Proteins |
| **Applications Tested/Suitable for anti-ARL3 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-ARL3 antibody** | WB: 1:100-1:500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-ARL3 antibody** | MBS6464035 is an antibody targeting ARL3. Also known as ARL3, NT (ADP-ribosylation Factor-like Protein 3, ARFL3) (Biotin). 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-hARL3-M1 Pab in A2058 cell line lysate (35ug/lane). hARL3-M1(arrow) was detected using the purified Pab.

## ADDITIONAL DETAILS

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

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| **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] |

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| **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.<br><br>Protein type: Cell cycle regulation; Cytoskeletal; G protein, monomeric, ARF; G protein, monomeric<br><br>Chromosomal Location of Human Ortholog: 10q23.3<br><br>Cellular Component: Golgi membrane; Golgi apparatus; centrosome; cytoplasmic microtubule; spindle microtubule; midbody; nucleus; photoreceptor connecting cilium<br><br>Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding; microtubule binding; metal ion binding<br><br>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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