10320 Camino Santa Fe, Suite G
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ARL2 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS13129

Specification

ARL2 Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P36404
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**21kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A**

ARL2 Antibody - Additional Information

Gene ID 402

Other Names
ADP-ribosylation factor-like protein 2, ARL2

Target/Specificity
Human ARL2.

Reconstitution & Storage
Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions
ARL2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ARL2 Antibody - Protein Information

Name ARL2

Function
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 (PubMed:10831612, PubMed:16525022, PubMed:<a

href="http://www.uniprot.org/citations/18234692" target="_blank">18234692, PubMed:18588884, PubMed:20740604). Also regulates mitochondrial integrity and function (PubMed:30945270).

Cellular Location
Mitochondrion intermembrane space. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus. Cytoplasm. Note=The complex formed with ARL2BP, ARL2 and SLC25A6 is expressed in mitochondria. The complex formed with ARL2BP, ARL2 and SLC25A4 is expressed in mitochondria (By similarity). Not detected in the Golgi, nucleus and on the mitotic spindle. Centrosome-associated throughout the cell cycle Not detected to interphase microtubules {ECO:0000250|UniProtKB:O08697}

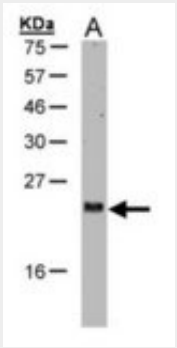
Volume
50 µl

ARL2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ARL2 Antibody - Images



Sample(30 g of whole cell lysate). A: H1299. 15% SDS PAGE. ARL2 antibody diluted at 1:1000.

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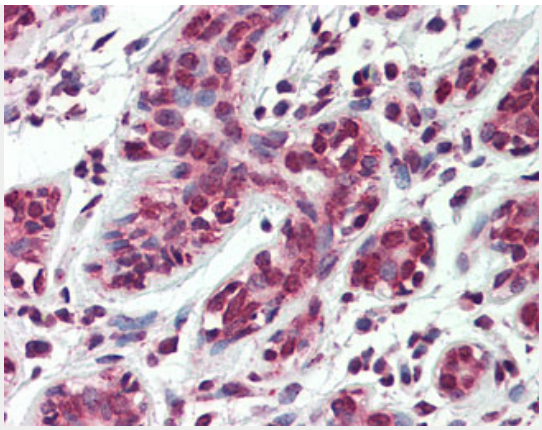
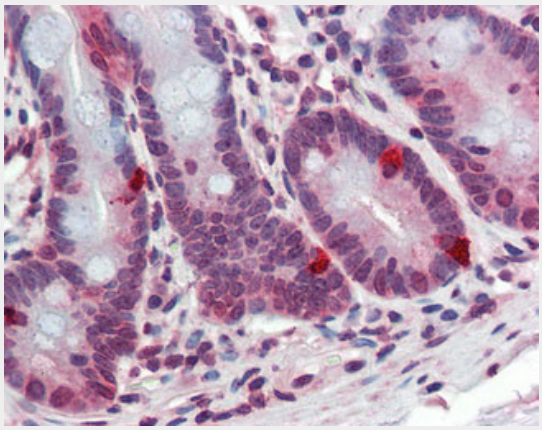


Anti-ARL2 antibody IHC of human breast.



Anti-ARL2 antibody IHC of human small intestine.

ARL2 Antibody - Background

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.

ARL2 Antibody - References

Clark J.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:8952-8956(1993).
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Puhl H.L. III,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Brandenberger R.,et al.Nat. Biotechnol. 22:707-716(2004).
Taylor T.D.,et al.Nature 440:497-500(2006).