

ARL1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2304a**Specification**

ARL1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P40616](#)**ARL1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 400**Other Names**

ADP-ribosylation factor-like protein 1, ARL1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2304a](/product/products/AP2304a) was selected from the N-term region of human ARL1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARL1 Antibody (N-term) Blocking Peptide - Protein Information**Name** ARL1**Function**

GTP-binding protein that recruits several effectors, such as golgins, arfaptins and Arf-GEFs to the trans-Golgi network, and modulates their functions at the Golgi complex (PubMed:[21239483](http://www.uniprot.org/citations/21239483), PubMed:[22679020](http://www.uniprot.org/citations/22679020), PubMed:[27373159](http://www.uniprot.org/citations/27373159), PubMed:[27436755](http://www.uniprot.org/citations/27436755), PubMed:[9624189](http://www.uniprot.org/citations/9624189), PubMed:[12972563](http://www.uniprot.org/citations/12972563)). Plays thereby a role in a wide range of fundamental cellular processes, including cell polarity, innate immunity, or protein secretion mediated by arfaptins, which were shown to play a role in maintaining insulin secretion from pancreatic beta cells (PubMed:[22981988](http://www.uniprot.org/citations/22981988)).

Cellular Location

Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus, trans-Golgi network membrane. Membrane; Lipid-anchor

Tissue Location

Detected in heart, liver, lung and liver (at protein level). Detected in fetal heart, lung, liver and kidney Detected in adult heart, placenta, lung, liver, skeletal muscle, kidney and pancreas.

ARL1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ARL1 Antibody (N-term) Blocking Peptide - Images**ARL1 Antibody (N-term) Blocking Peptide - Background**

ARL1 belongs to the ARL (ADP-ribosylation factor-like) family of proteins, which are structurally related to ADP-ribosylation factors (ARFs). ARFs, described as activators of cholera toxin (CT) ADP-ribosyltransferase activity, regulate intracellular vesicular membrane trafficking, and stimulate a phospholipase D (PLD) isoform. Although, ARL proteins were initially thought not to activate CT or PLD, later work showed that they are weak stimulators of PLD and CT in a phospholipid dependent manner.

ARL1 Antibody (N-term) Blocking Peptide - References

Hong, J.X., et al., J. Biol. Chem. 273(25):15872-15876 (1998).Zhang, G.F., et al., J. Biol. Chem. 270(1):21-24 (1995).