

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

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**ARL1 Antibody (N-term) Blocking Peptide - Product Information**Primary 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:[9624189](http://www.uniprot.org/citations/9624189), PubMed:[21239483](http://www.uniprot.org/citations/21239483), PubMed:[27436755](http://www.uniprot.org/citations/27436755), PubMed:[22679020](http://www.uniprot.org/citations/22679020), PubMed:[27373159](http://www.uniprot.org/citations/27373159)). 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).