

**ARL1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16793c****Specification**

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

ADP-ribosylation factor-like protein 1, ARL1

**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 (Center) 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:<a href="http://www.uniprot.org/citations/9624189" target="\_blank">9624189</a>, PubMed:<a href="http://www.uniprot.org/citations/21239483" target="\_blank">21239483</a>, PubMed:<a href="http://www.uniprot.org/citations/27436755" target="\_blank">27436755</a>, PubMed:<a href="http://www.uniprot.org/citations/22679020" target="\_blank">22679020</a>, PubMed:<a href="http://www.uniprot.org/citations/27373159" target="\_blank">27373159</a>). 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:<a href="http://www.uniprot.org/citations/22981988" target="\_blank">22981988</a>).

**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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ARL1 Antibody (Center) Blocking Peptide - Images**

### **ARL1 Antibody (Center) Blocking Peptide - Background**

The protein encoded by this gene 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 (Center) Blocking Peptide - References**

Houghton, F.J., et al. Cell 138(4):787-794(2009) Nishimoto-Morita, K., et al. J. Biol. Chem. 284(16):10583-10592(2009) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Zahn, C., et al. Mol. Membr. Biol. 23(6):475-485(2006) Lu, L., et al. Mol. Biol. Cell 15(10):4426-4443(2004)