

ARL1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16793c

Specification

ARL1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P40616
Other Accession	P61212 , P61211 , Q2YDM1 , NP_001168.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	20418
Antigen Region	81-108

ARL1 Antibody (Center) - Additional Information

Gene ID 400

Other Names

ADP-ribosylation factor-like protein 1, ARL1

Target/Specificity

This ARL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-108 amino acids from the Central region of human ARL1.

Dilution

WB~1:1000

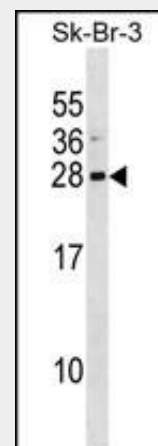
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



ARL1 Antibody (Center) (Cat. #AP16793c) western blot analysis in SK-BR-3 cell line lysates (35ug/lane). This demonstrates the ARL1 antibody detected the ARL1 protein (arrow).

ARL1 Antibody (Center) - 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) - References

Houghton, F.J., et al. Cell
138(4):787-794(2009)
Nishimoto-Morita, K., et al. J. Biol. Chem.

ARL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ARL1 Antibody (Center) - 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, PubMed:21239483, PubMed:27436755, PubMed:22679020, PubMed: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).

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.

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)

ARL1 Antibody (Center) - Protocols

Provided below are standard protocols that you

may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)