

ARL6 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2309a

Specification

ARL6 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [O9H0F7](#)
Other Accession [ARL6_HUMAN](#)

ARL6 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 84100

Other Names

ADP-ribosylation factor-like protein 6, Bardet-Biedl syndrome 3 protein, ARL6, BBS3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2309a](/product/products/AP2309a) was selected from the N-term region of human ARL6. 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.

ARL6 Antibody (N-term) Blocking Peptide - Protein Information

Name ARL6

Synonyms BBS3

Function

Involved in membrane protein trafficking at the base of the ciliary organelle. Mediates recruitment onto plasma membrane of the BBSome complex which would constitute a coat complex required for sorting of specific membrane proteins to the primary cilia (PubMed: [20603001](http://www.uniprot.org/citations/20603001)). Together with BBS1, is necessary for correct trafficking of PKD1 to primary cilia (By similarity). Together with the BBSome complex and LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation (PubMed: [22072986](http://www.uniprot.org/citations/22072986)). May regulate cilia assembly and disassembly and subsequent ciliary signaling events such as the Wnt signaling

cascade (PubMed:20207729). Isoform 2 may be required for proper retinal function and organization (By similarity).

Cellular Location

Cell projection, cilium membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, cilium basal body. Note=Appears in a pattern of punctae flanking the microtubule axoneme that likely correspond to small membrane-associated patches. Localizes to the so- called ciliary gate where vesicles carrying ciliary cargo fuse with the membrane

ARL6 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ARL6 Antibody (N-term) Blocking Peptide - Images

ARL6 Antibody (N-term) Blocking Peptide - Background

ARL6 belongs to the ARF family of GTP-binding proteins. ARF proteins are important regulators of cellular traffic and are the founding members of an expanding family of homologous proteins and genomic sequences. They depart from other small GTP-binding proteins by a unique structural device that implements front-back communication from the N-terminus to the nucleotide-binding site. Studies of the mouse ortholog of this protein suggest an involvement in protein transport, membrane trafficking, or cell signaling during hematopoietic maturation. Alternative splicing occurs at this locus and two transcript variants encoding the same protein have been described.

ARL6 Antibody (N-term) Blocking Peptide - References

Pasqualato, S., et al., EMBO Rep. 3(11):1035-1041 (2002).Ingley, E., et al., FEBS Lett. 459(1):69-74 (1999).Jacobs, S., et al., FEBS Lett. 456(3):384-388 (1999).