

**ARL6 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2309a****Specification**

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**ARL6 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9H0F7</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

**ARL6 Antibody (N-term) - Additional Information****Gene ID** 84100**Other Names**

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

**Target/Specificity**

This ARL6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ARL6.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

ARL6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ARL6 Antibody (N-term) - 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](#)). 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](#)). 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

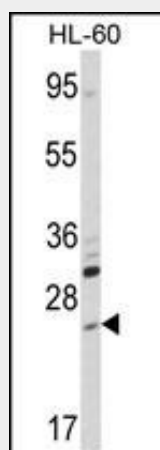
Cell projection, cilium membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, cilium basal body. Note=Appears in a pattern of punctae flanking the microtubule axoneme that likely correspond to small membrane-associated patches. Localizes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

#### ARL6 Antibody (N-term) - Protocols

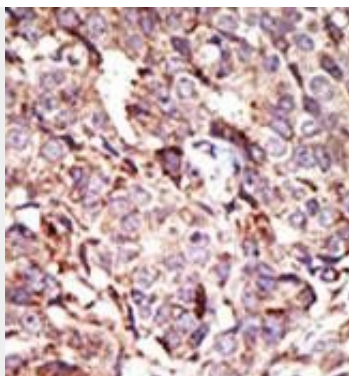
Provided below are standard protocols that you may find useful for product applications.

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

#### ARL6 Antibody (N-term) - Images



Western blot analysis of hARL6-M1 (Cat. #AP2309a) in HL-60 cell line lysates (35ug/lane). ARL6 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **ARL6 Antibody (N-term) - 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) - 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).

#### **ARL6 Antibody (N-term) - Citations**

- [Bardet-Biedl syndrome-associated small GTPase ARL6 \(BBS3\) functions at or near the ciliary gate and modulates Wnt signaling.](#)