

Product datasheet

Anti-ARL6 antibody ab229972

1 Image

Overview

<b>Product name</b>	Anti-ARL6 antibody
<b>Description</b>	Rabbit polyclonal to ARL6
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Cow 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human ARL6 aa 1-186. Sequence: MGLLDRLSVLLGLKKKEVHVLCLGLDNSGKTTIINKLKPSN AQSQNILPT IGFSIEKFKSSSLSTVFDMSGQGGRYRNLWEHYKQAI FVIDSSDRL RMVVAKEELDTLLNHPDIKHRRIPILFFANKMDLRDAVTSV KVSQLLCLE NIKDKPWHICASDAIKGEGLQEGVDWLQDQIQTVKT  Database link: <a href="#">Q9H0F7</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human glioma cancer tissue.
<b>General notes</b>	Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.  Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.  We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.  In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.  We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.  Applications & species from publications and Abreviews that have not been tested in our own

labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab229972** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.

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## Target

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<b>Function</b>	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. May regulate cilia assembly and disassembly and subsequent ciliary signaling events such as the Wnt signaling cascade. Isoform 2 may be required for proper retinal function and organization.
<b>Involvement in disease</b>	Defects in ARL6 are a cause of Bardet-Biedl syndrome type 3 (BBS3) [MIM:209900]. Bardet-Biedl syndrome (BBS) is a genetically heterogeneous disorder characterized by usually severe pigmentary retinopathy, early onset obesity, polydactyly, hypogenitalism, renal malformation and mental retardation. Secondary features include diabetes mellitus, hypertension and congenital heart disease. Defects in ARL6 are the cause of retinitis pigmentosa type 55 (RP55) [MIM:613575]. RP55 is a retinal dystrophy belonging to the group of pigmentary retinopathies. Retinitis pigmentosa is characterized by retinal pigment deposits visible on fundus examination and primary loss of rod photoreceptor cells followed by secondary loss of cone photoreceptors. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well.

### Sequence similarities

Belongs to the small GTPase superfamily. Arf family.

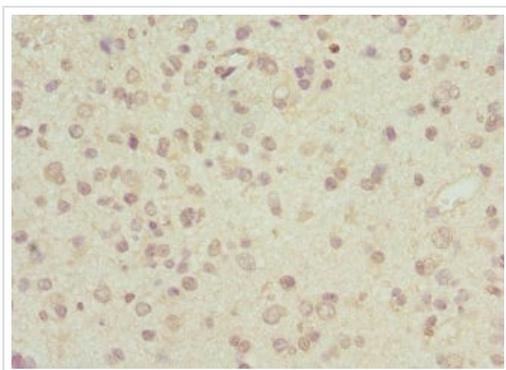
### Cellular localization

Cell projection > cilium membrane. Cytoplasm > cytoskeleton > cilium axoneme. Cytoplasm > cytoskeleton > cilium basal body. 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.

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### Images

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Paraffin-embedded human glioma cancer tissue stained for ARL6 using ab229972 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARL6 antibody (ab229972)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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