ARL6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARL6, Polyclonal Antibody
Full Product Name	ARL6 (ADP-Ribosylation Factor-like Protein 6, Bardet-Biedl Syndrome 3 Protein, ARL6, BBS3) (PE)
Product Gene Name	anti-ARL6 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ARL6. Species Crossreactivity: human
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	21,960 Da
OMIM	600151
3D Structure	ModBase 3D Structure for Q9H0F7
Immunogen	KLH conjugated synthetic peptide corresponding to aa1-30 at the N-terminal region of human ARL6.
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-ARL6 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-ARL6 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-ARL6 antibody	IHC-P: 1:50-100 WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-ARL6 antibody	MBS6454280 is an antibody targeting ARL6. Also known as ARL6 (ADP-Ribosylation Factor-like Protein 6, Bardet-Biedl Syndrome 3 Protein, ARL6, BBS3) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ARL6 antibody	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).
Other Notes	Small volumes of anti-ARL6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARL6. It may not necessarily be applicable to this product.

NCBI GI #	507834146
NCBI GeneID	84100
NCBI Accession #	NP_001265222.1
UniProt Primary Accession #	Q9H0F7
UniProt Secondary Accession #	A8KA93; D3DN31
UniProt Related Accession #	Q9H0F7
GenBank Nucleotide #	NM_001278293.1
NCBI Official Full Name	ADP-ribosylation factor-like protein 6
NCBI Official Synonym Full Names	ADP-ribosylation factor-like 6
NCBI Official Symbol	ARL6
NCBI Official Synonym Symbols	BBS3; RP55
UniProt Protein Name	ADP-ribosylation factor-like protein 6
UniProt Synonym Protein Names	Bardet-Biedl syndrome 3 protein
UniProt Gene Name	ARL6
UniProt Synonym Gene Names	BBS3
UniProt Entry Name	ARL6_HUMAN
NCBI Protein Information	ADP-ribosylation factor-like protein 6; Bardet-Biedl syndrome 3 protein
NCBI Summary for ARL6	The protein encoded by this gene belongs to the ARF-like (ADP ribosylation factor-like) sub-family of the ARF family of GTP-binding proteins which are involved in regulation of intracellular traffic. Mutations in this gene are associated with Bardet-Biedl syndrome (BBS). Alternative splicing results in multiple transcript variants of this gene. A vision-specific transcript encoding a different protein has been described (PMID: 20333246). [provided by RefSeq, May 2013]

UniProt Comments for ARL6	ARL6: 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. Defects in ARL6 are a cause of Bardet-Biedl syndrome type 3 (BBS3). 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). 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. Belongs to the small GTPase superfamily. Arf family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: G protein, monomeric; G protein; G protein, monomeric, ARF Chromosomal Location of Human Ortholog: 3q11.2 Cellular Component: membrane coat; membrane; cytoplasm; plasma membrane; axoneme; cytosol; cilium Molecular Function: protein binding; GTP binding; metal ion binding; phospholipid binding Biological Process: fat cell differentiation; protein polymerization; Wnt receptor signaling pathway; visual perception; small GTPase mediated signal transduction; organelle organization and biogenesis; cilium biogenesis; brain development; intermembrane transport; determination of left/right symmetry; protein targeting to membrane; melanosome transport; regulation of smoothened signaling pathway Disease: Retinitis Pigmentosa 55; Bardet-biedl Syndrome 3; Bardet-biedl Syndrome 1; Retinitis Pigmentosa
Research Articles on ARL6	**1.** The BBSome is a coat-like ciliary trafficking complex composed of proteins mutated in Bardet-Biedl syndrome. ARL6 E108A mutation prevents BBSome recruitment to cilia.
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