

Rabbit ARF6 Polyclonal Antibody | anti-ARF6 antibody

ARF6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325952	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

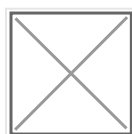
PRODUCT SYNONYMS

ARF6; Polyclonal Antibody; ARF6 Antibody; antibody; ADP ribosylation factor 6; ADP ribosylation factor protein 6; ADP-ribosylation factor 6; ARF6_HUMAN; DKFZp564M0264; Small GTP binding protein; Small GTPase; anti-ARF6 antibody

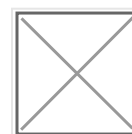
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ARF6 antibody detects endogenous levels of total ARF6
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	175
Applicable Applications for anti-ARF6 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ARF6
Subcellular Location	Golgi Apparatus. Cell Membrane. Endosome membrane. Cell Membrane. Cell Projection > Filopodium Membrane. Recruited to the Cell Membrane in association with CYTH2 and ARL4C.
Tissue Specificity	Ubiquitous, with higher levels in heart, substantia nigra, and kidney.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of extracts from mouse heart, using ARF6 Antibody.


WB (Western Blot)

Western blot analysis of A431 using ARF6 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325952 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA325952 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ARF6 antibody

Description: ADP-ribosylation factor (Arf) proteins are low molecular weight GTP binding proteins that belong to the Ras GTPase superfamily (1). Arf proteins are grouped into three distinct classes based on amino acid sequence and structural similarity, with Arf6 as the single class III protein to date. Arf6 is localized mainly to the plasma membrane and endosomes (1, 2). This small GTPase interacts with PIP5K, PLD and Rac1, proteins important in lipid metabolism and actin regulation. Arf6 function depends upon its cycling between GDP-and GTP-bound states, which is regulated by associated GAP and GEF factors (3, 4). Plasma membrane-associated Arf6 appears to play several functions during the many steps of membrane trafficking, including regulating membrane receptor internalization in both clathrin-dependent and independent pathways, endosomal recycling, and proximal actin reorganization and remodeling (5, 6).

Function: GTP-binding protein involved in protein trafficking that regulates endocytic recycling and cytoskeleton remodeling (PubMed:11266366, PubMed:21170023, PubMed:16737952, PubMed:7589240, PubMed:18400762). Required for normal completion of mitotic cytokinesis (By similarity). Plays a role in the reorganization of the actin cytoskeleton and the formation of stress fibers (By similarity). May also modulate vesicle budding and uncoating within the Golgi apparatus. Involved in the regulation of dendritic spine development, contributing to the regulation of dendritic branching and filopodia extension (PubMed:14978216). Plays an important role in membrane trafficking, during junctional remodeling and epithelial polarization. Regulates surface levels of adherens junction proteins such as CDH1 (By similarity).

Subunit Structure: Interacts with PIP5K1C (PubMed:12847086). Interacts with USP6 (via Rab-GAP TBC domain) (PubMed:15509780). Interacts with RAB11FIP3 and RAB11FIP4 (PubMed:16148947, PubMed:17030804, PubMed:17628206). Interacts with HERC1 (PubMed:15642342). Interacts with ARHGAP21 (PubMed:15793564). Interacts with ASAP3; the interaction is stabilized by calcium ions (PubMed:16737952, PubMed:20510928). Interacts with NCS1/FREQ at the plasma membrane (PubMed:17555535). Interacts with TBC1D24 (PubMed:20727515). Interacts with ECPAS (PubMed:20682791). Interacts with MICALL1 (PubMed:21951725). Interacts with SPAG9 homodimers, forming heterotetramers (PubMed:19644450). Interacts with CYTH3 (PubMed:23940353). Interacts with ASAP2 (By similarity). Interacts with UACA (By similarity). Interacts with KIF23, forming heterodimers and heterotetramers (By similarity). Interacts with GGA1 (By similarity). Interacts with C9orf72 (By similarity).

Similarity: Belongs to the small GTPase superfamily. Arf family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502211
NCBI GeneID	382
NCBI Accession #	NP_001654.1
NCBI GenBank Nucleotide #	NM_001663.3
UniProt Accession #	P62330 ; P26438 ; Q6FGZ2
Molecular Weight	Observed: 20 kDa Predicted: 21 kDa
NCBI Official Full Name	ADP-ribosylation factor 6
NCBI Official Synonym Full Names	ADP ribosylation factor 6
NCBI Official Symbol	ARF6
NCBI Protein Information	ADP-ribosylation factor 6

UniProt Protein Name	ADP-ribosylation factor 6
UniProt Gene Name	ARF6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/arf6-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325952>