

Rabbit ARL2 Polyclonal Antibody | anti-ARL2 antibody

Anti-ARL2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127217	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

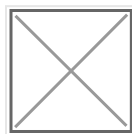
PRODUCT SYNONYMS

ARL2; Polyclonal Antibody; Anti-ARL2 Antibody Picoband; ADP-ribosylation factor-like protein 2; ADP ribosylation factor like GTPase 2; anti-ARL2 antibody

PRODUCT SPECIFICATIONS

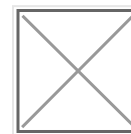
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ARL2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ARL2, which shares 90.9% amino acid (aa) sequence identity with mouse and rat ARL2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



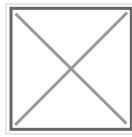
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of JK cells using anti-ARL2 antibody (AAA127217). Overlay histogram showing JK cells stained with AAA127217 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ARL2 Antibody (AAA127217, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



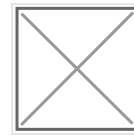
IF (Immunofluorescence)

Figure 3. IF analysis of ARL2 using anti-ARL2 antibody (AAA127217). ARL2 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-ARL2 Antibody (AAA127217) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ARL2 using anti-ARL2 antibody (AAA127217). ARL2 was detected in a paraffin-embedded section of human cervical cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ARL2 Antibody (AAA127217) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ARL2 using anti-ARL2 antibody (AAA127217). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human T-47D whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human U-397 whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat lung tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ARL2 antigen affinity purified polyclonal antibody (#AAA127217) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ARL2 at approximately 18 kDa. The expected band size for ARL2 is at 21 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ARL2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ARL2 antibody	Primary Antibodies
References	1. Bowzard, J. B., Cheng, D., Peng, J., Kahn, R. A. ELMOD2 is an Arl2 GTPase-activating protein that also acts on Arfs. J. Biol. Chem. 282: 17568-17580, 2007.2. Cai, X.-B., Wu, K.-C., Zhang, X., Lv, J.-N., Jin, G.-H., Xiang, L., Chen, J., Huang, X.-F., Pan, D., Lu, B., Lu, F., Qu, J., Jin, Z.-B. Whole-exome sequencing identified ARL2 as a novel candidate gene for MRCS (microcornea, rod-cone dystrophy, cataract, and posterior staphyloma) syndrome. Clin. Genet. 96: 61-71, 2019.3. Clark, J., Moore, L., Krasinskas, A., Way, J., Battey, J., Tamkun, J., Kahn, R. A. Selective amplification of additional members of the ADP-ribosylation factor (ARF) family: cloning of additional human and Drosophila ARF-like genes. Proc. Nat. Acad. Sci. 90: 8952-8956, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116241255
NCBI GeneID	402
UniProt Accession #	P36404 ; Q9BUK8 ; G3V184
Molecular Weight	184
NCBI Official Full Name	ADP-ribosylation factor-like protein 2
NCBI Official Synonym Full Names	ADP-ribosylation factor-like 2
NCBI Official Symbol	ARL2
NCBI Official Synonym Symbols	ARFL2
NCBI Protein Information	ADP-ribosylation factor-like protein 2
UniProt Protein Name	ADP-ribosylation factor-like protein 2
UniProt Gene Name	ARL2
UniProt Entry Name	ARL2_HUMAN

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.

