

Rabbit ARID1A Polyclonal Antibody | anti-ARID1A antibody

Anti-ARID1A Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125992	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

ARID1A; Polyclonal Antibody; Anti-ARID1A Antibody Picoband; anti-ARID1A 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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ARID1A antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human ARID1A recombinant protein (Position: R857-Q1552).
Preparation and Storage	Store 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 3. Flow Cytometry analysis of HeLa cells using anti-ARID1A antibody (AAA125992). Overlay histogram showing HeLa cells stained with AAA125992 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ARID1A Antibody (AAA125992, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of ARID1A using anti-ARID1A antibody (AAA125992). ARID1A was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ARID1A Antibody (AAA125992) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 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.



WB (Western Blot)

Figure 1. Western blot analysis of ARID1A using anti-ARID1A antibody (AAA125992). 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 Hela whole cell lysates, Lane 2: rat spleen tissue lysates, Lane 3: mouse spleen tissue lysates, Lane 4: mouse thymus 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-ARID1A antigen affinity purified polyclonal antibody (#AAA125992) at 0.5 ug/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 ARID1A at approximately 270 kDa. The expected band size for ARID1A is at 242 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ARID1A antibody	AT-rich interactive domain-containing protein 1A is a protein that in humans is encoded by the ARID1A gene. This gene encodes a member of the SWI/SNF family, whose members have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. It possesses at least two conserved domains that could be important for its function. First, it has a DNA-binding domain that can specifically bind an AT-rich DNA sequence known to be recognized by a SNF/SWI complex at the beta-globin locus. Second, the C-terminus of the protein can stimulate glucocorticoid receptor-dependent transcriptional activation. It is thought that the protein encoded by this gene confers specificity to the SNF/SWI complex and may recruit the complex to its targets through either protein-DNA or protein-protein interactions. Two transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-ARID1A antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21264565
NCBI GeneID	8289
NCBI Accession #	NP_006006
NCBI GenBank Nucleotide #	NM_006015.4
UniProt Accession #	O14497; Q53FK9; Q5T0W1; Q5T0W2; Q5T0W3; Q8NFD6; Q96T89; Q9BY33; Q9HBJ5; Q9UPZ1; D3DPL1
Molecular Weight	Predicted: 133; 227; 251 kDa Observed: 130; 260 kDa
NCBI Official Full Name	AT-rich interactive domain-containing protein 1A isoform a
NCBI Official Synonym Full Names	AT rich interactive domain 1A (SWI-like)
NCBI Official Symbol	ARID1A
NCBI Official Synonym Symbols	ELD; B120; OSA1; P270; hELD; BM029; MRD14; hOSA1; BAF250; C1orf4; BAF250a; SMARCF1
NCBI Protein Information	AT-rich interactive domain-containing protein 1A; osa homolog 1; SWI-like protein; brain protein 120; OSA1 nuclear protein; BRG1-associated factor 250a; SWI/SNF complex protein p270; chromatin remodeling factor p250; ARID domain-containing protein 1A; SWI
UniProt Protein Name	AT-rich interactive domain-containing protein 1A

UniProt Gene Name	ARID1A
UniProt Synonym Gene Names	BAF250; BAF250A; C1orf4; OSA1; SMARCF1; ARID domain-containing protein 1A; BAF250; BAF250A; hOSA1
UniProt Entry Name	ARI1A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/arid1a-antibody-western-blot-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/125992>