Product datasheet

Anti-ARID1A Antibody

Catalog Number: *PB0724*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-ARID1A Antibody
Gene Name	ARID1A
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ARID1A identical to the related mouse sequence.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	250-270 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Flow Cytometry (Fixed): 1:50-200

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

AT-rich interactive domain-containing protein 1A, also known as p270, is a protein that in humans is encoded by the ARID1A gene. This gene encodes a member of the SWI/SNF families, whose members have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. ARID1A is mapped to 1p36.11. 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.

Selected Validation Data

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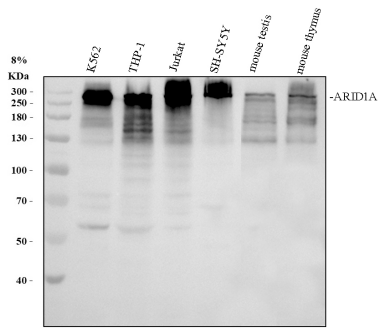
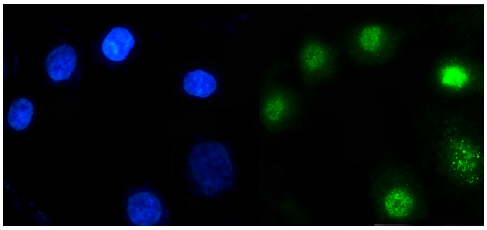
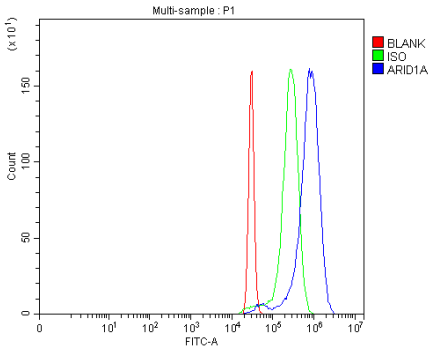


Western blot analysis of ARID1A using anti-ARID1A antibody (PB0724). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human THP-1 whole cell lysates,
Lane 3: human Jurkat whole cell lysates,
Lane 4: human SH-SY5Y whole cell lysates,
Lane 5: mouse testis tissue lysates,
Lane 6: mouse thymus tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ARID1A antigA03957-Aen affinity purified polyclonal antibody (PB0724) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ARID1A at approximately 250-270 kDa. The expected band size for ARID1A is at 242 kDa.



IF analysis of ARID1A using anti-ARID1A antibody (PB0724).
ARID1A was detected in an immunocytochemical section of A549 cells. The section was incubated with rabbit anti-ARID1A Antibody (PB0724) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of Hela cells using anti-ARID1A antibody (PB0724).
Overlay histogram showing Hela cells stained with PB0724 (Blue line). To facilitate intrARID1Allular 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-ARID1A Antibody (PB0724) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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