BOSTER BIOLOGICAL TECHNOLOGY Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

antibody and FLISA

Basic Inform	ation	
Product Name	Anti-ARID1A Antibody	
Gene Name	ARID1A	
Source	Rabbit	
Clonality	Polyclonal	
lsotype	lgG	
Species Reactivity	human, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human ARID1A recombinant protein (Position: R857-Q1552).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	250-270 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow Cytometry (Fixed): Enzyme linked immunosorbent assay (ELISA): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or mins is required for the staining of formalin/paraffin sections. determined by end user.	1:500-2000 1:50-400 1:50-400 1:50-200 1:100-1000 PH8.0 EDTA repair liquid for 20) Optimal working dilutions must be

Storage

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

Background Information

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

Product datasheet Anti-ARID1A Antibody Catalog Number: A00247-2

antibody and ELISA experts BOSTER BIOLOGICAL TECHNOLOGY Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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found for this gene.

Selected Validation Data



Western blot analysis of ARID1A using anti-ARID1A antibody (A00247-2). 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: human HepG2 whole cell lysates,

Lane 3: human K562 whole cell lysates,

Lane 4: human MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ARID1A antigen affinity purified polyclonal antibody (A00247-2) 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.



IHC analysis of ARID1A using anti-ARID1A antibody (A00247-2) . ARID1A was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. The tissue section was incubated with rabbit anti-ARID1A Antibody (A00247-2) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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IF analysis of ARID1A using anti-ARID1A antibody (A00247-2) and anti-Beta Tubulin antibody (M01857-3).

ARID1A was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-ARID1A Antibody (A00247-2) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Cy3-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1031) were used as secondary antibody.



Flow Cytometry analysis of K562 cells using anti-ARID1A antibody (A00247-2).

Overlay histogram showing K562 cells stained with A00247-2 (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-ARID1A Antibody (A00247-2, 1:100). DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.