Product datasheet

Anti-ALDH1A3 Antibody

Catalog Number: *A03030*

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-ALDH1A3 Antibody
Gene Name	ALDH1A3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human ALDH1A3 recombinant protein (Position: N37-K154). Human ALDH1A3 shares 89% and 87.3% amino acid (aa) sequence identity with mouse and rat ALDH1A3, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	56 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

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

Background Information

Aldehyde dehydrogenase 1 family, member A3, also known as ALDH1A3 or retinaldehyde dehydrogenase 3 (RALDH3), is an enzyme that in humans is encoded by the ALDH1A3 gene. Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The enzyme encoded by this gene uses retinal as a substrate, either in a free or a cellular retinol-binding protein form. Mutations in this gene have been associated with microphthalmia, isolated 8, and expression changes have also been detected in

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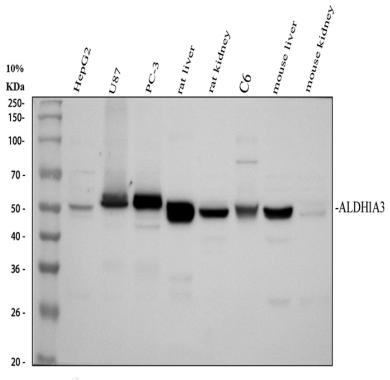
tumor cells. Alternative splicing results in multiple transcript variants.

Reference

Anti-ALDH1A3 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of ALDH1A3 using anti-ALDH1A3 antibody (A03030). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human U87 whole cell lysates,
Lane 3: human PC-3 whole cell lysates,
Lane 4: rat liver tissue lysates,
Lane 5: rat kidney tissue lysates,
Lane 6: rat C6 whole cell lysates,
Lane 7: mouse liver tissue lysates,
Lane 8: mouse kidney tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ALDH1A3 antigen affinity purified polyclonal antibody (A03030) 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 ALDH1A3 at approximately 50-56 kDa. The expected band size for ALDH1A3 is at 56 kDa.

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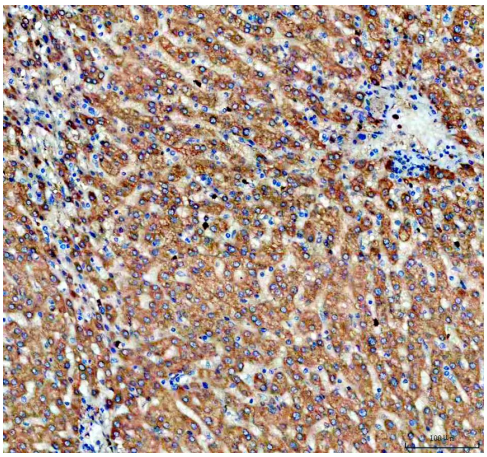
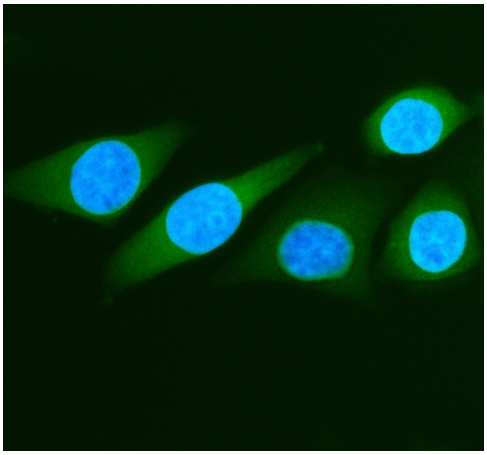
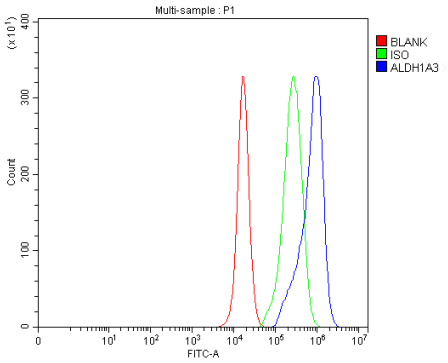


IHC analysis of ALDH1A3 using anti-ALDH1A3 antibody (A03030). ALDH1A3 was detected in a paraffin-embedded section of human prostate cancer tissue. The tissue section was incubated with rabbit anti-ALDH1A3 Antibody (A03030) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of ALDH1A3 using anti-ALDH1A3 antibody (A03030). ALDH1A3 was detected in an immunocytochemical section of SiHa cells. The section was incubated with rabbit anti-ALDH1A3 Antibody (A03030) at a dilution of 1:100. Fluoro488 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 PC-3 cells using anti-ALDH1A3 antibody (A03030).
Overlay histogram showing PC-3 cells stained with A03030 (Blue line). To facilitate intrMyelin basic protein/MBPllular 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-ALDH1A3 Antibody (A03030) at 1:100 dilution for 30 min at 20°C. Fluoro488 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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