Product datasheet

Anti-ANLN Antibody

Catalog Number: *A03997-1*

BOSTER
antibody and ELISA experts
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

Basic Information

Product Name	Anti-ANLN Antibody
Gene Name	ANLN
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, IP, 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 at the C-terminus of human Anillin/ANLN, which shares 96.4% amino acid (aa) sequence identity with both mouse and rat Anillin/ANLN.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	150 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 ImmunoPrecipitation (IP): 1:250-300 Flow Cytometry (Fixed): 1:50-200

Storage

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

Background Information

Anillin is a conserved protein implicated in cytoskeletal dynamics during cellularization and cytokinesis. This gene is mapped to 7p14.2. The ANLN gene in humans and the scraps gene in Drosophila encode Anillin. The human anillin cDNA, located on Chr7, encodes a 1,125–amino acid protein with a predicted molecular mass of 124 kD and a pI of 8.1. The mouse anillin gene is located on Chr9. This gene encodes an actin-binding protein that plays a role in cell growth and migration, and in cytokinesis. The encoded protein is thought to regulate actin cytoskeletal dynamics in podocytes, components of the glomerulus. Mutations in this gene are associated with focal segmental glomerulosclerosis 8. Alternative splicing results in multiple transcript variants encoding different isoforms.

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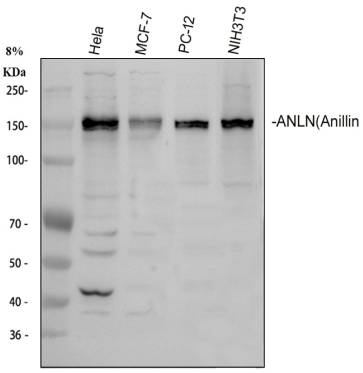
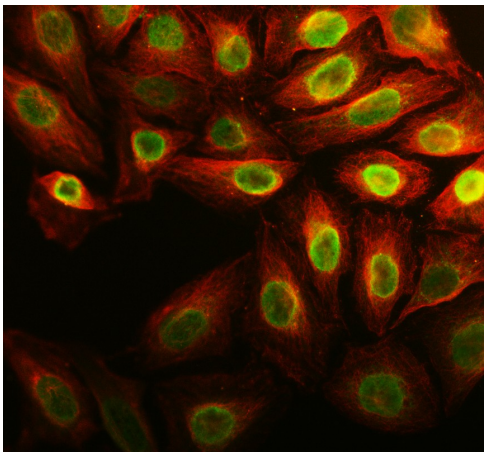
Reference

Anti-ANLN Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of ANLN using anti-ANLN antibody (A03997-1). 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 MCF-7 whole cell lysates,
Lane 3: rat PC-12 whole cell lysates,
Lane 4: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ANLN antigen affinity purified polyclonal antibody (A03997-1) 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 ANLN at approximately 150 kDa. The expected band size for ANLN is at 124 kDa.



IF analysis of ANLN using anti-ANLN antibody (A03997-1) and anti-Beta Tubulin antibody (M01857-3).
ANLN was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-ANLN Antibody (A03997-1) 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.

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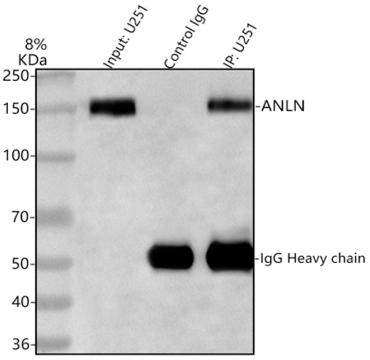
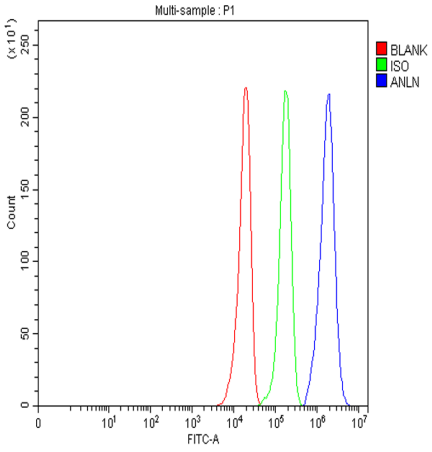


IP analysis of ANLN using anti-ANLN antibody (A03997-1) in U251 whole cell lysate.
Western blot analysis of ANLN using anti- ANLN antibody (A03997-1).
Lane 1: U251 whole cell lysates(30ug),
Lane 2: Rabbit control IgG instead of anti- ANLN antibody in U251 whole cell lysate,
Lane 3: anti- ANLN antibody (2µg) + U251 whole cell lysate (500µg).
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti- ANLN antigen affinity purified polyclonal antibody (A03997-1) 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 ANLN at approximately 150 kDa. The expected band size for ANLN is at 124 kDa.



Flow Cytometry analysis of U251 cells using anti-ANLN antibody (A03997-1).
Overlay histogram showing U251 cells stained with A03997-1 (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-ANLN Antibody (A03997-1) 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.