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Anti-Anillin/ANLN Antibody Picoband®

Catalog Number: A03997-1

About ANLN

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.

Overview

Product Name	Anti-Anillin/ANLN Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Anillin/ANLN Antibody Picoband® catalog # A03997-1. Tested in Flow Cytometry, IP, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IP, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NQW6

Technical Details

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.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunocytochemistry/Immunofluorescence, 5 ug/ml Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells

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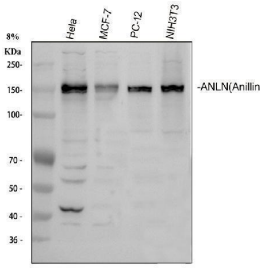
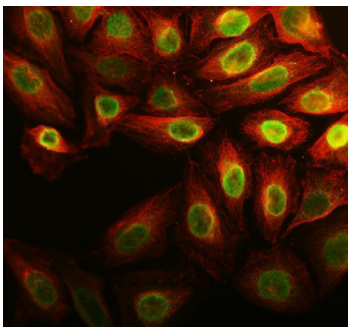
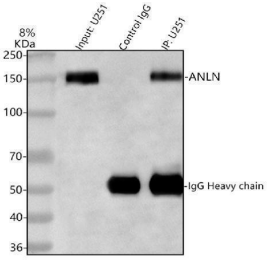
Anti-Anillin/ANLN Antibody Picoband® (A03997-1) Images



Western blot analysis of Anillin/ANLN using anti-Anillin/ANLN antibody (A03997-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 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: 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 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-Anillin/ANLN antigen affinity purified polyclonal antibody (A03997-1) at 0.5 ug/mL overnight at 4°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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Anillin/ANLN at approximately 150 kDa. The expected band size for Anillin/ANLN is at 124 kDa.



IF analysis of Anillin/ANLN using anti-Anillin/ANLN antibody (A03997-1) and anti-Tubulin Alpha antibody (M03989-3). Anillin/ANLN was detected in immunocytochemical section of U2OS cell. 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-Anillin/ANLN Antibody (A03997-1) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Catalog # BA1127) and Cy3 Conjugated Goat Anti-Mouse IgG (Catalog # BA1032) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Immunoprecipitating Anillin/ANLN in U251 whole cell lysate. Western blot analysis of Anillin/ANLN using anti-Anillin/ANLN antibody (A03997-1); Lane 1: U251 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-Anillin/ANLN antibody in U251 whole cell lysate; Lane 3: anti-Anillin/ANLN antibody (2ug) + U251 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Anillin/ANLN antigen affinity purified polyclonal antibody (A03997-1) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for Anillin/ANLN at approximately 150 kDa. The expected band size for Anillin/ANLN is at 124 kDa.

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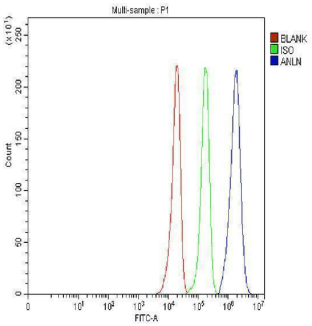

Flow Cytometry analysis of U251 cells using anti-Anillin/ANLN antibody (A03997-1). Overlay histogram showing U251 cells stained with A03997-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Anillin/ANLN Antibody (A03997-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-Anillin/ANLN Antibody

For Research Use Only. Not for use in diagnostic procedures.