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Anti-PDLIM4 Antibody Picoband®

Catalog Number: A09573-2

About PDLIM4

PDZ and LIM domain protein 4 is a protein that in humans is encoded by the PDLIM4 gene. RIL, also known as PDLIM4 is a putative tumor suppressor gene. RIL is transcriptionally repressed by hypermethylation in a variety of tumors including breast and prostate. The difference in methylation status of RIL between normal and cancerous tissues is being investigated as to determine the use of RIL as a potential biomarker. Two isoforms of human RIL one have been identified.

Overview

Product Name	Anti-PDLIM4 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-PDLIM4 Antibody Picoband® catalog # A09573-2. Tested in WB, IP, ICC, IF, Flow Cytometry, ELISA applications. This antibody reacts with Human. 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	ELISA, Flow Cytometry, IP, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P50479

Technical Details

Immunogen	E.coli-derived human PDLIM4 recombinant protein (Position: Y137-D271). Human PDLIM4 shares 91.2% and 89% amino acid (aa) sequence identity with mouse and rat PDLIM4, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human

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	Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, -

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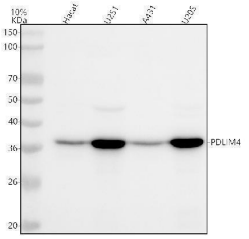
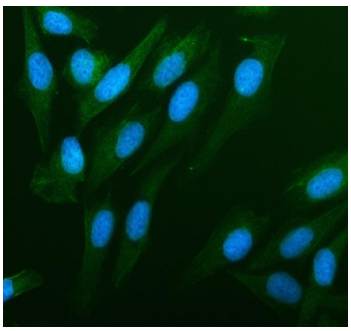
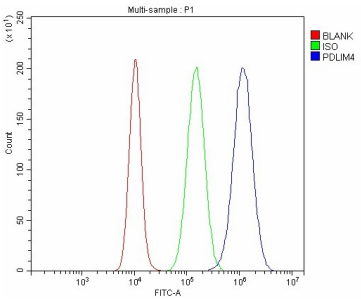
Anti-PDLIM4 Antibody Picoband® (A09573-2) Images



Western blot analysis of PDLIM4 using anti-PDLIM4 antibody (A09573-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hacat whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human U20S 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-PDLIM4 antigen affinity purified polyclonal antibody (Catalog # A09573-2) 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 at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PDLIM4 at approximately 35 kDa. The expected band size for PDLIM4 is at 35,26 kDa.



IF analysis of PDLIM4 using anti-PDLIM4 antibody (A09573-2). PDLIM4 was detected in an immunocytochemical section of U2OS cells. 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-PDLIM4 Antibody (A09573-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of A431 cells using anti-PDLIM4 antibody (A09573-2). Overlay histogram showing A431 cells stained with A09573-2 (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-PDLIM4 Antibody (A09573-2, 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.

Western blot analysis of PDLIM4 using anti-PDLIM4 antibody (A09573-2). Electrophoresis was performed on a 5-20% SDS-

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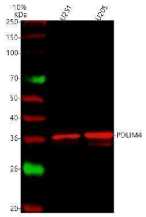
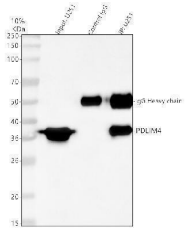


PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U251 whole cell lysates, Lane 2: human U20S whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose 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-PDLIM4 antigen affinity purified polyclonal antibody (A09573-2) 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-DyLight 647 Conjugated secondary antibody at a dilution of 1:2000 for 1.5 hour at RT. A specific band was detected for PDLIM4 at approximately 37 kDa. The expected band size for PDLIM4 is at 35 kDa.



Immunoprecipitating (IP) PDLIM4 in U251 whole cell lysate. Western blot analysis of PDLIM4 using anti-PDLIM4 antibody (A09573-2); Lane 1: U251 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-PDLIM4 antibody in U251 whole cell lysate; Lane 3: anti-PDLIM4 antibody (2ug) + U251 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PDLIM4 antigen affinity purified polyclonal antibody (A09573-2) 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 PDLIM4 at approximately 37 kDa. The expected band size for PDLIM4 is at 35 kDa.

Anti-PDLIM4 Antibody

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