

## Anti-P-Cadherin-3 CDH3 Antibody Picoband®

Catalog Number: A03353-1

### About CDH3

Cadherins, such as CDH3, are integral membrane glycoproteins responsible for calcium-dependent cell-cell adhesion. Cadherin-3 is a protein that in humans is encoded by the CDH3 gene. This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene have been associated with congenital hypotrichosis with juvenile macular dystrophy.

### Overview

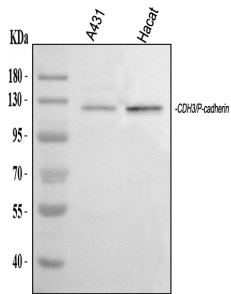
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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-P-Cadherin-3 CDH3 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reactive Species     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Description          | Boster Bio Anti-P-Cadherin-3 CDH3-Antibody Picoband® catalog # A03353-1. Tested in ELISA, Flow Cytometry, IF, ICC, WB 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, IF, ICC, WB                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                           |
| 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           | P22223                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### Technical Details

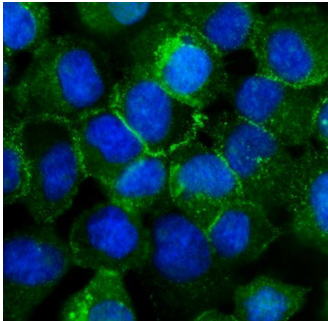
|                               |                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | E. coli-derived human P cadherin recombinant protein (Position: Q126-H336).                                                                                                   |
| 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. |
| 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.                                                                                    |
| Purification        | Immunogen affinity purified.                                                                                                                                 |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml<br>Immunocytochemistry/Immunofluorescence, 5ug/ml<br>Flow Cytometry (Fixed), 1-3ug/1x10 <sup>6</sup> cells<br>ELISA, 0.1-0.5ug/ml |

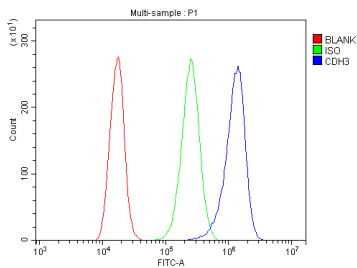
## Anti-P-Cadherin-3 CDH3 Antibody Picoband® (A03353-1) Images



Western blot analysis of P cadherin/CDH3 using anti-P cadherin/CDH3 antibody (A03353-1). 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 A431 whole cell lysates, Lane 2: human Hacat 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-P cadherin/CDH3 antigen affinity purified polyclonal antibody (Catalog # A03353-1) 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 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 P cadherin/CDH3 at approximately 120 kDa. The expected band size for P cadherin/CDH3 is at 91 kDa.



IF analysis of P cadherin/CDH3 using anti-P cadherin/CDH3 antibody (A03353-1). P cadherin/CDH3 was detected in immunocytochemical section of A431 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 2ug/mL rabbit anti-P cadherin/CDH3 Antibody (A03353-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 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-P cadherin/CDH3 antibody (A03353-1). Overlay histogram showing A431 cells stained with A03353-1 (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-P cadherin/CDH3 Antibody (A03353-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) 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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### Anti-P-Cadherin-3 CDH3 Antibody

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