BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-LI Cadherin/CDH17 Antibody

**Catalog Number:** A06389-1

## About CDH17

Cadherin-17, also known as HPT1 or CDH16 is a protein that in humans is encoded by the CDH17 gene. By somatic cell hybrid analysis and fluorescence in situ hybridization, CDH17 gene is mapped to 8q22.1. This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. The encoded protein is cadherin-like, consisting of an extracellular region, containing 7 cadherin domains, and a transmembrane region but lacking the conserved cytoplasmic domain. The protein is a component of the gastrointestinal tract and pancreatic ducts, acting as an intestinal proton-dependent peptide transporter in the first step in oral absorption of many medically important peptide-based drugs. The protein may also play a role in the morphological organization of liver and intestine.

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## Overview

| | |
|---|---|
| Product Name | Anti-LI Cadherin/CDH17 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-LI Cadherin/CDH17 Antibody catalog # A06389-1. Tested in ELISA, Flow Cytometry, IF, IHC, ICC applications. This antibody reacts with Human; Mouse; Rat. |
| Application | ELISA, Flow Cytometry, IF, IHC, ICC |
| 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 | Q12864 |

## Technical Details

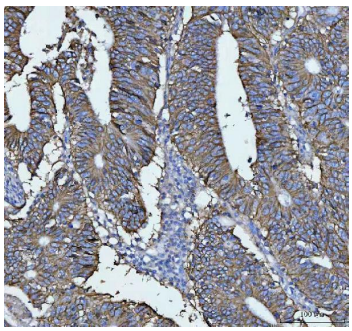
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| Immunogen | E.coli-derived human LI Cadherin/CDH17 recombinant protein (Position: E24-Q695). |
| Recommended Detection Systems | Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC. |

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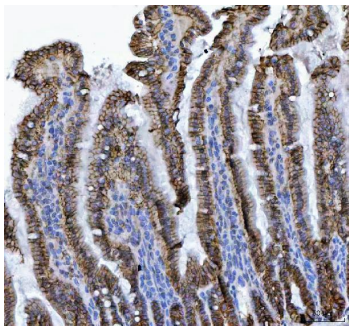
| | |
|---|---|
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Immunohistochemistry(Paraffin-embedded Section), 1-2 ug/ml, Human, Mouse, Rat<br>Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human<br>Immunofluorescence, 5 ug/ml, Human<br>Flow Cytometry(Fixed), 1-3 ug/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 ug/ml, -<br><br>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells. |

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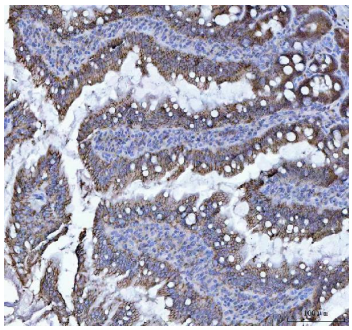
# Anti-LI Cadherin/CDH17 Antibody (A06389-1) Images



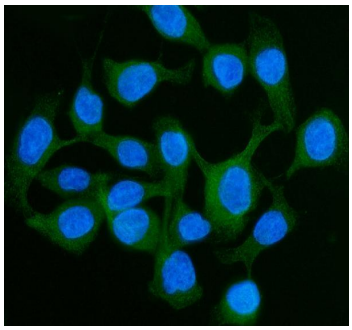
IHC analysis of LI Cadherin/CDH17 using anti-LI Cadherin/CDH17 antibody (A06389-1). LI Cadherin/CDH17 was detected in a paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LI Cadherin/CDH17 Antibody (A06389-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of LI Cadherin/CDH17 using anti-LI Cadherin/CDH17 antibody (A06389-1). LI Cadherin/CDH17 was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LI Cadherin/CDH17 Antibody (A06389-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



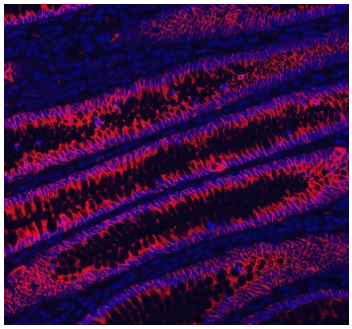
IHC analysis of LI Cadherin/CDH17 using anti-LI Cadherin/CDH17 antibody (A06389-1). LI Cadherin/CDH17 was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-LI Cadherin/CDH17 Antibody (A06389-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IF analysis of LI Cadherin/CDH17 using anti-LI Cadherin/CDH17 antibody (A06389-1). LI Cadherin/CDH17 was detected in an immunocytochemical section of CACO-2 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-LI Cadherin/CDH17 Antibody (A06389-1) 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.

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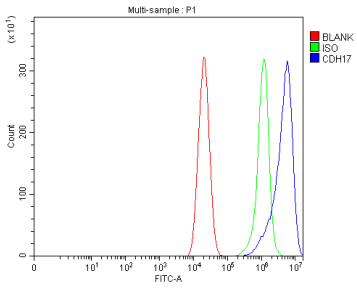
Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of LI Cadherin/CDH17 using anti-LI Cadherin/CDH17 antibody (A06389-1). LI Cadherin/CDH17 was detected in a paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-LI Cadherin/CDH17 Antibody (A06389-1) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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.



IF analysis of LI Cadherin/CDH17 using anti-LI Cadherin/CDH17 antibody (A06389-1). LI Cadherin/CDH17 was detected in a paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-LI Cadherin/CDH17 Antibody (A06389-1) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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 CACO-2 cells using anti-LI Cadherin/CDH17 antibody (A06389-1). Overlay histogram showing CACO-2 cells stained with A06389-1 (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-LI Cadherin/CDH17 Antibody (A06389-1, 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 (Red line) was also used as a control.

## Anti-LI Cadherin/CDH17 Antibody

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