Product datasheet

# Anti-CD326/EPCAM Antibody

**Catalog Number: *PB10059***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-CD326/EPCAM Antibody |
| **Gene Name** | EPCAM |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human |
| **Tested Application** | WB, IHC, IF, FCM, ELISA |
| **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 in the middle region of human EPCAM, different from the related mouse sequence by fifteen amino acids, and from the related rat sequence by sixteen amino acids. |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 35-40 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>Immunofluorescence (IF): 1:50-400<br>Flow Cytometry (Fixed): 1:50-200<br>Enzyme linked immunosorbent assay (ELISA): 1:100-1000<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

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

## Background Information

Epithelial cell adhesion molecule (EpCAM) is a transmembrane glycoprotein mediating Ca2+-independent homotypic cell–cell adhesion in epithelia. This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is

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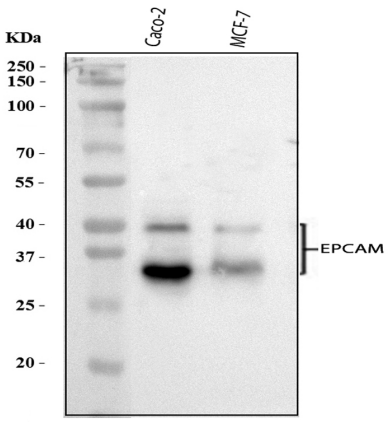
being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy.

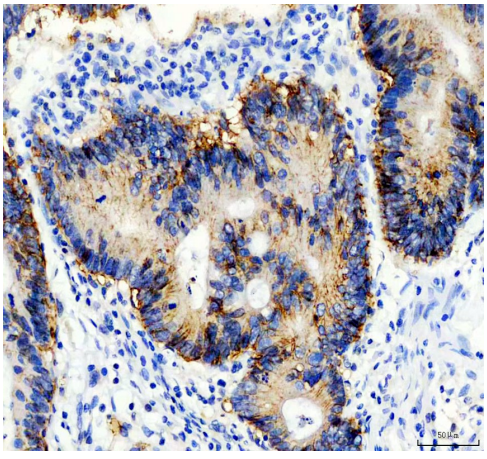
## Reference

Anti-CD326/EPCAM Antibody被引用在3文献中。

## Selected Validation Data




Western blot analysis of E-cadherin/CDH1 using anti-E-cadherin/CDH1 antibody (PB10059). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Caco-2 whole cell lysates,
Lane 2: human MCF-7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-E-cadherin/CDH1 antigen affinity purified polyclonal antibody (PB10059) 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 E-cadherin/CDH1 at approximately 35-40 kDa. The expected band size for E-cadherin/CDH1 is at 35 kDa.



IHC analysis of E-cadherin/CDH1 using anti-E-cadherin/CDH1 antibody (PB10059) .
E-cadherin/CDH1 was detected in a paraffin-embedded section of human colon cancer tissue. The tissue section was incubated with rabbit anti-E-cadherin/CDH1 Antibody (PB10059) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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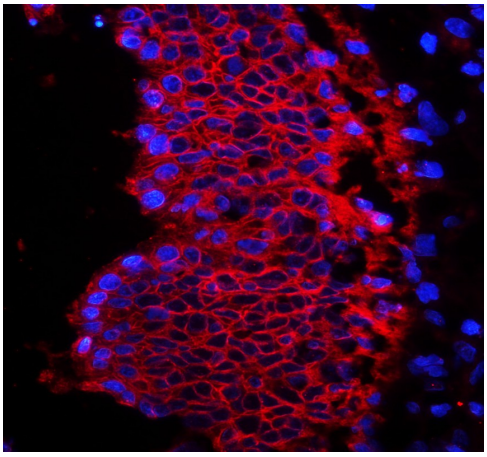
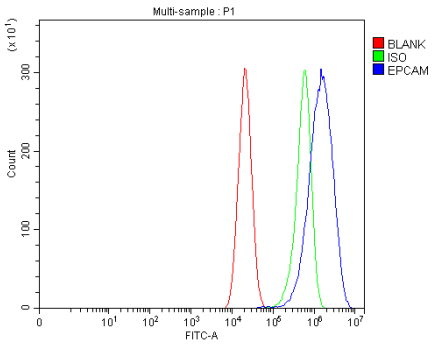


IF analysis of E-cadherin/CDH1 using anti-E-cadherin/CDH1 antibody (PB10059).
E-cadherin/CDH1 was detected in a paraffin-embedded section of human rectal cancer tissue. The tissue section was incubated with rabbit anti-E-cadherin/CDH1 Antibody (PB10059) at a dilution of 1:100. Fluoro594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).




Flow Cytometry analysis of Caco-2 cells using anti-E-cadherin/CDH1 antibody (PB10059).
Overlay histogram showing Caco-2cells stained with PB10059 (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-E-cadherin/CDH1 Antibody (PB10059) at 1:100 dilution for 30 min at 20°C. Fluoro488 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.