

## Anti-EpCAM Antibody

Catalog Number: A00276-1

### About Epcam

Epithelial cell adhesion molecule (EpCAM) is a transmembrane glycoprotein mediating Ca<sup>2+</sup>-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 being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy.

### Overview

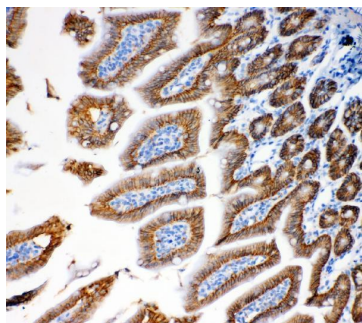
Product Name	Anti-EpCAM Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-EpCAM Antibody catalog # A00276-1. Tested in ELISA, IF, IHC applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IF, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.005mg NaN <sub>3</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	Q99JW5

### Technical Details

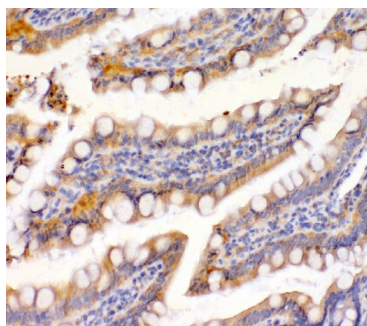
Immunogen	E.coli-derived <a href="#">mouse EpCAM</a> recombinant protein (Position: E147-N189).
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	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), 1-2ug/ml, Mouse, Rat

	Immunofluorescence, 5ug/ml, Mouse ELISA, 0.1-0.5ug/ml, -
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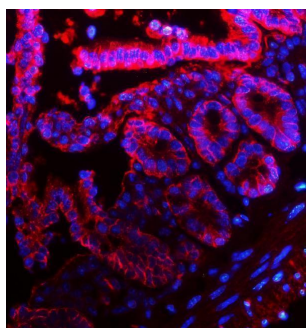
## Anti-EpCAM Antibody (A00276-1) Images



IHC analysis of EpCAM using anti-EpCAM antibody (A00276-1). EpCAM was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-EpCAM Antibody (A00276-1) 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 Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of EpCAM using anti-EpCAM antibody (A00276-1). EpCAM was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-EpCAM Antibody (A00276-1) 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 Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IF analysis of EpCAM using anti-EpCAM antibody (A00276-1). EpCAM was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-EpCAM Antibody (A00276-1) overnight at 4°C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using DyLight®594 Conjugated Avidin (BA1142). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

## 2 Publications Citing This Product

1. PubMed ID: , Performance of a multilayered small-diameter vascular scaffold dual-loaded with VEGF and PDGF
2. PubMed ID: 33069797, Shi R,Liu L,Wang F,He Y,Niu Y,Wang C,Zhang X,Zhang X,Zhang H,Chen M,Wang Y.Downregulation of cytokeratin 18 induces cellular partial EMT and stemness through increasing EpCAM expression in breast cancer.Cell Signal.2020 Dec;76:109810.doi:10.1016/j.cellsig

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