A29499

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E-Cadherin Mouse mAb

Catalog No.: A29499

Basic Information

Observed MW
80-135 kDa

Calculated MW
91 kDa/97 kDa

Category
Monoclonal Antibody

Applications
WB,IF/ICC,ELISA,IF-F

Cross-Reactivity
Human,Mouse,Rat

Background

This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function of this gene is thought to contribute to cancer progression by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16.

Recommended Dilutions

WB	1:6000 - 1:30000
IF/ICC	1:200 - 1:800
IF-F	1:200 - 1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000) , a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
999

Swiss Prot
P12830

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Product Information

Source
Mouse

Isotype
Mouse IgG1

Purification
Affinity purification

Storage
Store at -20℃

Contact

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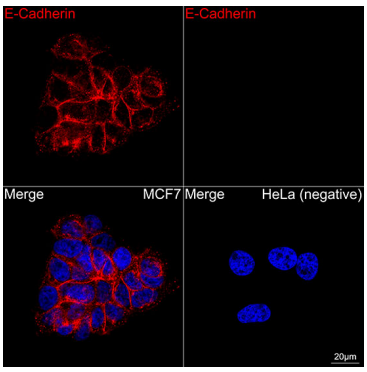
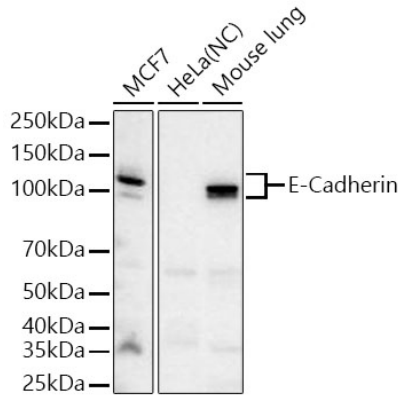
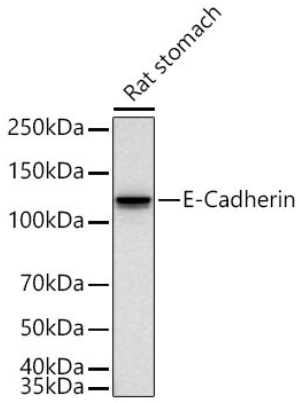
Validation Data



Confocal imaging of MCF7 cells and HeLa cells (negative) using E-Cadherin Mouse mAb (A29499, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

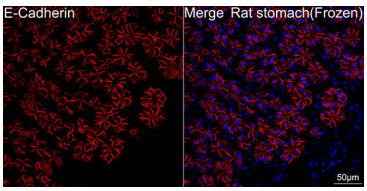


Western blot analysis of various lysates using E-Cadherin Mouse mAb (A29499) at 1:15000 dilution incubated overnight at 4℃.|Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.|Lysates/proteins: 25 μg per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit (RM00020).|Negative control (NC): HeLa.|Exposure time: 5 s.

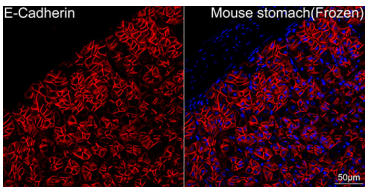


Western blot analysis of lysates from Rat stomach using E-Cadherin Mouse mAb (A29499) at 1:15000 dilution incubated overnight at 4℃.|Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.|Lysates/proteins: 25 μg per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit (RM00020).|Exposure time: 10 s.

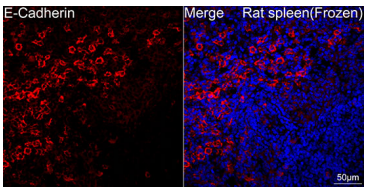
Validation Data



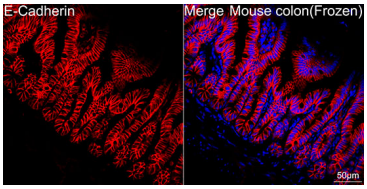
Confocal imaging of frozen sections of Rat stomach tissue using E-Cadherin Mouse mAb (A29499, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse stomach tissue using E-Cadherin Mouse mAb (A29499, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat spleen tissue using E-Cadherin Mouse mAb (A29499, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse colon tissue using E-Cadherin Mouse mAb (A29499, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.