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E Cadherin (CDH1) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1477a

Specification

E Cadherin (CDH1) Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	P12830
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**160-189**

E Cadherin (CDH1) Antibody (N-term) - Additional Information

Gene ID 999

Other Names
Cadherin-1, CAM 120/80, Epithelial cadherin, E-cadherin, Uvomorulin, CD324, E-Cad/CTF1, E-Cad/CTF2, E-Cad/CTF3, CDH1, CDHE, UVO

Target/Specificity
This E Cadherin (CDH1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-189 amino acids from the N-terminal region of human E Cadherin (CDH1).

Dilution
WB~~1:2000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
E Cadherin (CDH1) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

E Cadherin (CDH1) Antibody (N-term) - Protein Information

Name CDH1

Synonyms CDHE, UVO

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Function Cadherins are calcium-dependent cell adhesion proteins (PubMed:11976333). They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells (PubMed:11976333). Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.

Cellular Location
Cell junction, adherens junction. Cell membrane; Single-pass type I membrane protein. Endosome. Golgi apparatus, trans-Golgi network. Note=Colocalizes with DLGAP5 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm Colocalizes with RAB11A endosomes during its transport from the Golgi apparatus to the plasma membrane

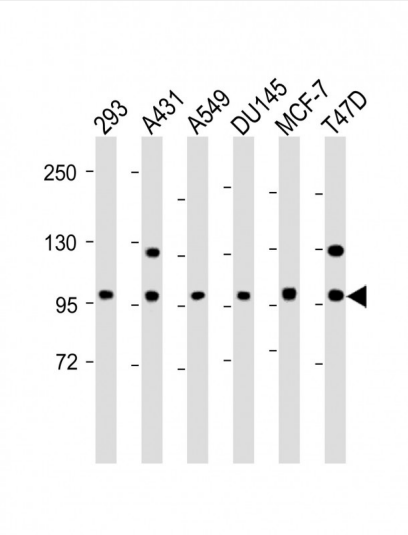
Tissue Location
Non-neural epithelial tissues.

E Cadherin (CDH1) Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

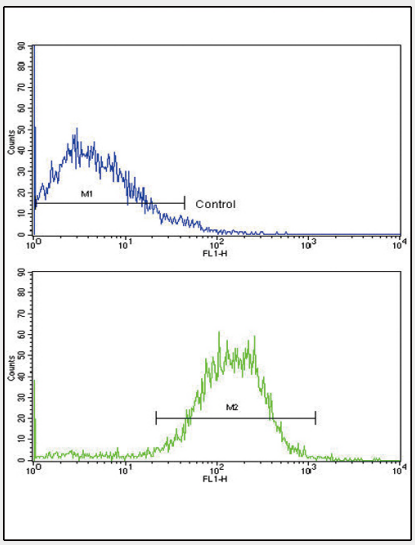
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

E Cadherin (CDH1) Antibody (N-term) - Images



All lanes : Anti-CDH1 Antibody (N-term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: DU145 whole cell lysate Lane 5: MCF-7 whole cell lysate Lane 6: T47D whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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Flow cytometric analysis of NCI-H292 cells using E Cadherin (CDH1) Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

E Cadherin (CDH1) Antibody (N-term) - Background

CDH1 is a classical cadherin from the cadherin superfamily. This protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer 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.

E Cadherin (CDH1) Antibody (N-term) - References

Mansouri,A., Differentiation 38 (1), 67-71 (1988) Knudsen,K.A. J. Cell Biol. 118 (3), 671-679 (1992) Hsu,Y.M., Cancer Res. 67 (22), 11064-11073 (2007)

E Cadherin (CDH1) Antibody (N-term) - Citations

- Exosomal circPABPC1 promotes colorectal cancer liver metastases by regulating HMGA2 in the nucleus and BMP4/ADAM19 in the cytoplasm
- Screening and identification of epithelial-to-mesenchymal transition-related circRNA and miRNA in prostate cancer
- Inhibition of ATM reverses EMT and decreases metastatic potential of cisplatin-resistant lung cancer cells through JAK/STAT3/PD-L1 pathway.
- ZNF750 inhibited the malignant progression of oral squamous cell carcinoma by regulating tumor vascular microenvironment.
- Identification of aberrantly expressed F-box proteins in squamous-cell lung carcinoma.
- Down-regulation of TCF21 by hypermethylation induces cell proliferation, migration and invasion in colorectal cancer.
- Pituitary tumor transforming gene PTTG2 induces psoriasis by regulating vimentin and E-cadherin expression.
- Intratumoral polymorphonuclear granulocyte is associated with poor prognosis in squamous esophageal cancer by promoting epithelial-mesenchymal transition.