

CDH1 / E Cadherin Antibody
Goat Polyclonal Antibody
Catalog # ALS17189**Specification**

CDH1 / E Cadherin Antibody - Product Information

Application	IHC-P
Primary Accession	P12830
Other Accession	999
Reactivity	Human, Mouse, Rat, Monkey, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	97456
Dilution	IHC-P~~N/A

CDH1 / E Cadherin Antibody - Additional Information**Gene ID** 999**Other Names**

CDH1, CD324, CDHE, Cell-CAM 120/80, E Cadherin, E-Cadherin, ECAD, Epithelial cadherin, Arc-1, UVO, Cadherin-1, CAM 120/80, CD324 antigen, LCAM, Uvomorulin

Target/Specificity

Detects endogenous levels of total E-cadherin protein by Western blot in the whole cell lysates (e.g. HeLa and COS-7). This Ab does not recognize CDH2.

Reconstitution & Storage

PBS, 20% glycerol, 0.05% sodium azide. Store at 4°C for one month or -20°C for longer. Avoid freeze/thaw cycles.

Precautions

CDH1 / E Cadherin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CDH1 / E Cadherin Antibody - Protein Information**Name** CDH1 ([HGNC:1748](#))**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). Promotes organization of radial actin fiber structure and cellular response to contractile forces, via its interaction with AMOTL2 which facilitates anchoring of radial actin fibers to CDH1 junction

complexes at the cell membrane (By similarity). Plays a role in the early stages of desmosome cell-cell junction formation via facilitating the recruitment of DSG2 and DSP to desmosome plaques (PubMed:29999492). 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. Cytoplasm. Cell junction, desmosome. 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. Recruited to desmosomes at the initial assembly phase and also accumulates progressively at mature desmosome cell-cell junctions (PubMed:25208567, PubMed:29999492) Localizes to cell-cell contacts as keratinocyte differentiation progresses (By similarity). {ECO:0000250|UniProtKB:P09803, ECO:0000269|PubMed:25208567, ECO:0000269|PubMed:29999492}

Tissue Location

Expressed in granuloma macrophages (at protein level) (PubMed:27760340). Expressed in the skin (at protein level) (PubMed:22294297). Expressed in the liver (PubMed:3263290)

Volume

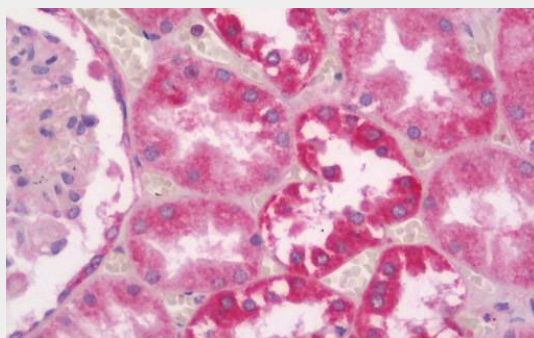
100 µl

CDH1 / E Cadherin Antibody - Protocols

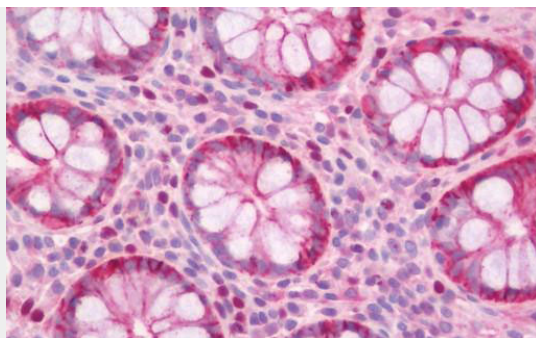
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

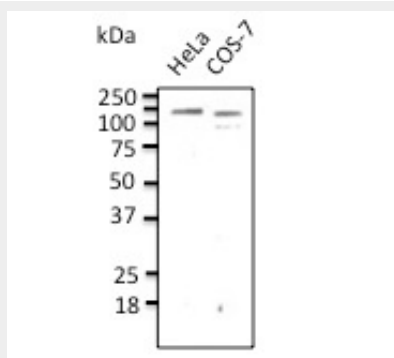
CDH1 / E Cadherin Antibody - Images



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



Endogenous CDH1 detected with Anti-CDH1 Ab at 1:500 dilution. Lysate at 100ug per lane.

CDH1 / E Cadherin Antibody - Background

Cadherins are calcium-dependent cell adhesion proteins. 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. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.

CDH1 / E Cadherin Antibody - References

- Bussemakers M.J.G., et al. Mol. Biol. Rep. 17:123-128(1993).
Oda T., et al. Proc. Natl. Acad. Sci. U.S.A. 91:1858-1862(1994).
Rimm D.L., et al. Biochem. Biophys. Res. Commun. 200:1754-1761(1994).
Ito K., et al. Oncogene 18:7080-7090(1999).
Shibamoto S., et al. Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.