10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDH1 / E Cadherin Antibody
Goat Polyclonal Antibody
Catalog # ALS17189

Specification

CDH1 / E Cadherin Antibody - Product Information

Application	**IHC-P, WB**
Primary Accession	P12830
Other Accession	999
Reactivity	**Human, Mouse, Rat, Monkey, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**97456**

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). 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). Localizes to cell-cell contacts as keratinocyte differentiation progresses (By similarity) {ECO:0000250|UniProtKB:P09803, ECO:0000269|PubMed:25208567}

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)

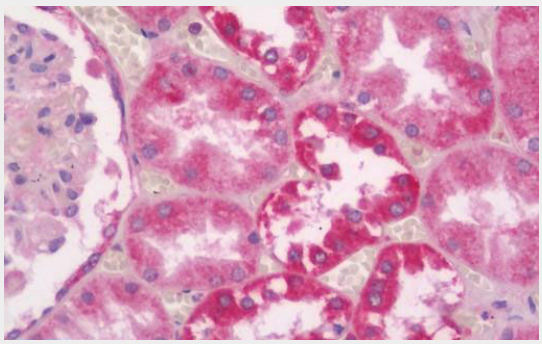
Volume
100 µl

CDH1 / E Cadherin Antibody - Protocols

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

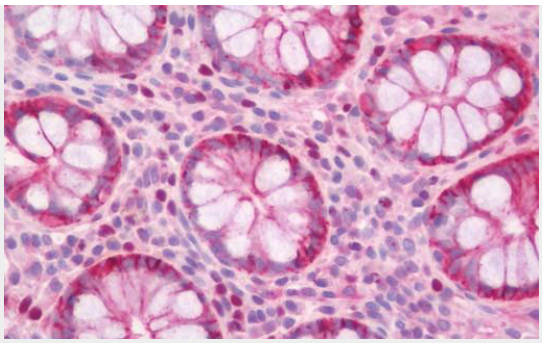
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CDH1 / E Cadherin Antibody - Images

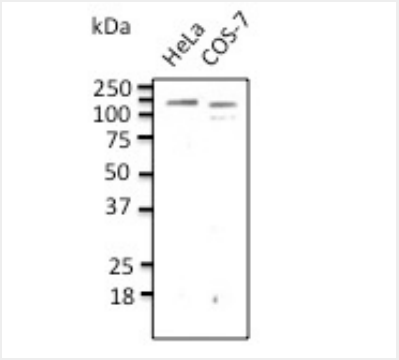


Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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.