

E Cadherin Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51065**Specification**

E Cadherin Antibody - Product Information

Application	WB
Primary Accession	P12830
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	135 KDa
Antigen Region	821 - 880

E Cadherin Antibody - 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

KLH conjugated synthetic peptide derived from human E Cadherin

Dilution

WB~~ 1:4000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

E Cadherin Antibody - Protein Information**Name** CDH1 ([HGNC:1748](#))**Function**

Cadherins are calcium-dependent cell adhesion proteins (PubMed: [11976333](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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

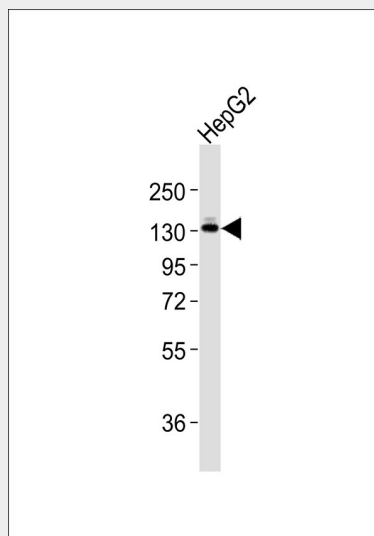
Expressed in granuloma macrophages (at protein level) (PubMed:27760340). Expressed in the skin (at protein level) (PubMed:22294297). Expressed in the liver (PubMed:3263290)

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](#)

E Cadherin Antibody - Images



Anti-E Cadherin Antibody at 1:4000 dilution + HepG2 whole cell lysates 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% NFDN/TBST.

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.

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).
Ota T., et al. Nat. Genet. 36:40-45(2004).