

# CDH1 Antibody(Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM2190a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P12830</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone Names</b>	813CT11.1.3
<b>Calculated MW</b>	97456

## Additional Information

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<b>Gene ID</b>	999
<b>Other Names</b>	Cadherin-1, CAM 120/80, Epithelial cadherin, E-cadherin, Uvomorulin, CD324, E-Cad/CTF1, E-Cad/CTF2, E-Cad/CTF3, CDH1, CDHE, UV0
<b>Target/Specificity</b>	Purified His-tagged CDH1 protein was used to produced this monoclonal antibody.
<b>Dilution</b>	WB~~1:5000 E~~Use at an assay dependent concentration.
<b>Format</b>	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
<b>Storage</b>	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.
<b>Precautions</b>	CDH1 Antibody(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CDH1 ( <a href="#">HGNC:1748</a> )
<b>Function</b>	Cadherins are calcium-dependent cell adhesion proteins (PubMed: <a href="#">11976333</a> ). 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: <a href="#">11976333</a> ). 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)

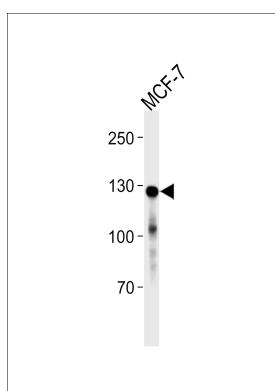
## Background

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-Cad/CTF2 promotes non-amyloidogenic degradation of Abeta precursors. Has a strong inhibitory effect on APP C99 and C83 production.

## 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).  
Bussemakers M.J.G., et al. Biochem. Biophys. Res. Commun. 203:1284-1290(1994).

## Images



CDH1 Antibody(Cat. #AM2190a) western blot analysis in MCF-7 cell line lysates (35 $\mu$ g/lane). This demonstrates the CDH1 antibody detected the CDH1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.