

CDH1 Antibody

Mouse Monoclonal Antibody (Mab)

Catalog # AM2190b

Product Information

Application	WB, IHC-P
Primary Accession	P12830
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Names	813CT11.1.3
Calculated MW	97456

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	Purified His-tagged CDH1 protein was used to produced this monoclonal antibody.
Dilution	IHC-P~~1:100~500 WB~~1:4000
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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	CDH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDH1
Synonyms	CDHE, UVO
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.

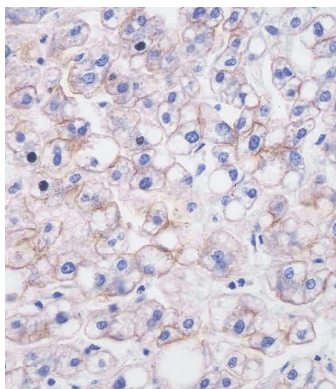
Background

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

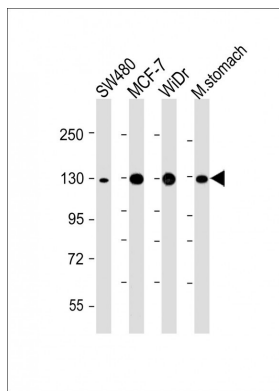
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Oda T., et al. Proc. Natl. Acad. Sci. U.S.A. 91:1858-1862(1994).
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Ito K., et al. Oncogene 18:7080-7090(1999).
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Images



AM2190b staining CDH1 in human liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

All lanes : Anti-CDH1 at 1:4000 dilution Lane 1: SW480 whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: WiDr whole cell lysate Lane 4: Mouse stomach lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 98 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Citations

- [TALENs-directed knockout of the full-length transcription factor Nrf1 \$\alpha\$ that represses malignant behaviour of human hepatocellular carcinoma \(HepG2\) cells.](#)