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CDH1 / E Cadherin Antibody (clone 3F4)

Mouse Monoclonal Antibody
Catalog # ALS13288

Specification

CDH1 / E Cadherin Antibody (clone 3F4) - Product Information

Application	**WB, IHC-P, E, PLA**
Primary Accession	P12830
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**97kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A** **PLA~~N/A**

CDH1 / E Cadherin Antibody (clone 3F4) - 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

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions
CDH1 / E Cadherin Antibody (clone 3F4) is for research use only and not for use in diagnostic or therapeutic procedures.

CDH1 / E Cadherin Antibody (clone 3F4) - 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}

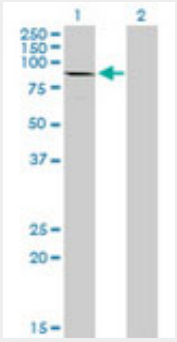
Tissue Location
Expressed in granuloma macrophages (at protein level) (PubMed:27760340). Expressed in the skin (at protein level) (PubMed:22294297). Expressed in the liver (PubMed:3263290)

CDH1 / E Cadherin Antibody (clone 3F4) - 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 (clone 3F4) - Images



Western blot of CDH1 expression in transfected 293T cell line by CDH1 monoclonal antibody, clone...

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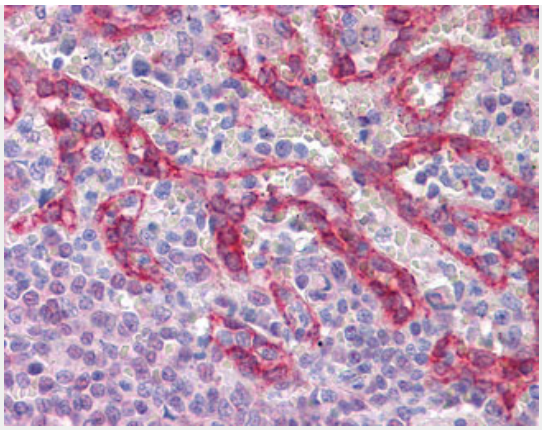

Anti-E Cadherin antibody IHC of human, spleen.

CDH1 / E Cadherin Antibody (clone 3F4) - 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 (clone 3F4) - References

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Ito K.,et al.Oncogene 18:7080-7090(1999).
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