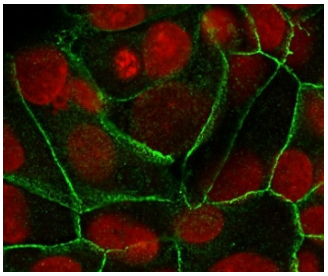
E-cadherin Antibody for IF / CDH1 Immunofluorescence Antibody - Junction Remodeling Marker [clone ECD1-2] (V7230)

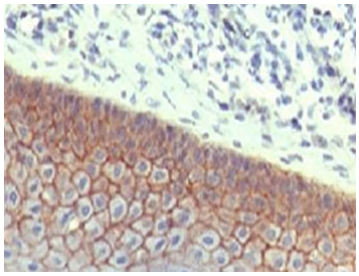
Catalog No.	Formulation	Size
V7230-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7230-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7230SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

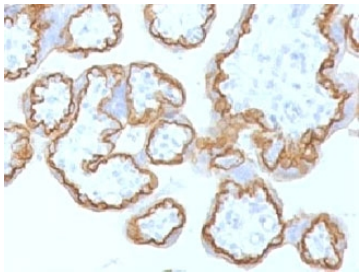
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ECD1-2
Purity	Protein G affinity chromatography
UniProt	P12830
Localization	Cytoplasmic, membranous
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Immunofluorescence: 2-4ug/ml
Limitations	This E-cadherin Antibody for IF / CDH1 Immunofluorescence Antibody - Junction Remodeling Marker is available for research use only.



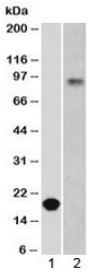
E-cadherin Antibody for IF. Immunofluorescence analysis of Cadherin 1 / CDH1 expression in human MCF7 cells using clone ECD1-2 antibody (green), showing membrane-associated staining with areas of variable continuity at cell-cell junctions, with Reddot nuclear stain (red). Signal highlights junctional organization and localized changes in cell-cell adhesion consistent with junction remodeling.



E-Cadherin Antibody Human Skin IHC. Immunohistochemistry testing of FFPE human skin with E-Cadherin antibody (clone ECD1-2). HIER: steam sections in pH6 citrate buffer for 20 min.



E-Cadherin Antibody Human Placenta IHC. Immunohistochemistry testing of FFPE human placenta with E-Cadherin antibody (clone ECD1-2). HIER: steam sections in pH6 citrate buffer for 20 min.



Western blot testing of 1) partial recombinant protein and 2) human stomach lysate using E-Cadherin antibody at 0.5ug/ml. Expected molecular weight: 135 kDa (precursor), 80-120 kDa (mature, depending on glycosylation level).

Description

E-cadherin (CDH1) is a key regulator of epithelial adhesion that undergoes dynamic changes during processes such as tissue remodeling, differentiation, and tumor progression. Under normal conditions, CDH1 localizes to adherens junctions at the plasma membrane, where it maintains stable cell-cell contacts and supports epithelial integrity. However, during cellular transitions, CDH1 expression and localization can be altered, leading to changes in adhesion strength and tissue organization. E-cadherin Antibody for IF enables visualization of these dynamic processes, providing insight into epithelial plasticity and remodeling. CDH1 is widely recognized as E-cadherin antibody and is a central marker of epithelial state.

E-cadherin Antibody for IF / CDH1 Immunofluorescence Antibody - Junction Remodeling Marker (clone ECD1-2) is designed for imaging applications that capture changes in junctional organization and epithelial structure. The mouse monoclonal clone ECD1-2 antibody produces strong membrane staining in epithelial cell models such as MCF7, allowing visualization of both intact and altered adhesion patterns. This clone ECD1-2 antibody supports fluorescence imaging workflows focused on detecting dynamic changes in cell-cell junctions.

In immunofluorescence studies, E-cadherin antibody reveals variation in membrane staining patterns that reflect changes in junction continuity. Continuous membrane localization indicates stable epithelial adhesion, while discontinuous, punctate, or redistributed staining can indicate junction remodeling or loss of epithelial characteristics. These patterns provide valuable information about cellular state and can be used to study processes such as epithelial-to-mesenchymal transition, where CDH1 downregulation or relocalization is a key feature.

At the molecular level, E-cadherin interacts with catenin proteins and cytoskeletal components to regulate both structural integrity and intracellular signaling pathways. Changes in E-cadherin localization can influence signaling cascades that control proliferation, migration, and differentiation. E-cadherin immunofluorescence antibody enables visualization of these changes within the cellular context, supporting studies of adhesion regulation and epithelial plasticity.

This E-cadherin antibody is particularly useful for fluorescence-based analysis of epithelial remodeling, where detection of both stable and altered junctional patterns is required. The membrane-associated staining produced by clone ECD1-2 allows researchers to assess changes in epithelial organization and supports imaging workflows focused on dynamic cellular behavior.

This antibody is part of the CDH1 antibody collection, where multiple E-cadherin antibody formats and applications are available for studying epithelial adhesion and cancer progression.

Application Notes

Optimal dilution of the E-cadherin Antibody for IF / CDH1 Immunofluorescence Antibody - Junction Remodeling Marker should be determined by the researcher.

Immunogen

A full length recombinant human protein was used as the immunogen for the E-Cadherin antibody.

Storage

Store the E-Cadherin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CDH1 antibody, E-cadherin IF antibody, junction remodeling antibody, epithelial transition marker antibody, adhesion regulation antibody

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