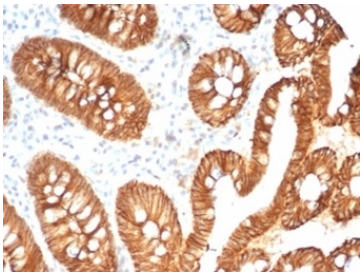
CDH1 Antibody / Cell Adhesion Regulation Antibody [clone CDH1/7034R] (V9169)

Catalog No.	Formulation	Size
V9169-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9169-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9169SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

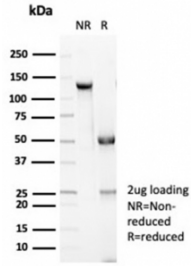
Recombinant RABBIT MONOCLONAL

Bulk quote request

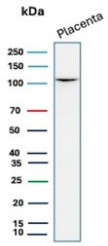
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDH1/7034R
Purity	Protein A/G affinity
UniProt	P12830
Localization	Cytoplasmic, membranous
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This CDH1 Antibody / Cell Adhesion Regulation Antibody is available for research use only.



CDH1 Antibody Human Colon IHC. Immunohistochemistry analysis of Cadherin 1 / CDH1 expression in FFPE human colon tissue using clone CDH1/7034R antibody, showing strong membranous HRP-DAB brown staining in epithelial cells lining glandular structures with clear cell-cell junction localization, while surrounding stromal tissue remains largely negative. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing. Signal highlights epithelial organization and regulated cell adhesion within colon mucosa.



SDS-PAGE analysis of purified, BSA-free recombinant CDH1 antibody (CDH1/7034R) as confirmation of integrity and purity.



CDH1 Antibody human placental tissue WB. Western blot analysis of Cadherin 1 / CDH1 expression using clone CDH1/7034R antibody, showing a band near the predicted molecular weight of E-cadherin. E-cadherin is synthesized as a precursor and undergoes glycosylation, resulting in an apparent molecular weight typically observed between approximately 80-120 kDa, with the precursor form near 135 kDa. The detected band is consistent with mature glycosylated CDH1 expressed in placental epithelial tissue.

Description

Cadherin 1 (CDH1) is a calcium-dependent transmembrane glycoprotein that functions as a central regulator of epithelial cell-cell adhesion and is a defining component of adherens junctions. Cadherin 1 (CDH1) antibody, also referred to as E-cadherin antibody, recognizes a protein that mediates homophilic interactions between adjacent epithelial cells and stabilizes tissue architecture. CDH1 Antibody / Cell Adhesion Regulation Antibody (clone CDH1/7034R) enables detection of this key adhesion molecule in studies focused on regulation of intercellular cohesion and epithelial integrity.

CDH1 plays a direct and dynamic role in controlling adhesion strength at the cell surface. Through calcium-dependent extracellular interactions, E-cadherin forms adhesive complexes that maintain close contact between neighboring cells, supporting organized epithelial layers. Regulation of these interactions is essential for maintaining tissue stability under normal conditions and for enabling controlled remodeling during development and repair. CDH1 antibody is therefore widely used to investigate how epithelial cells regulate adhesion in response to environmental and signaling cues.

Changes in CDH1 expression or function have significant biological consequences. Reduced expression or disruption of adhesion complexes can lead to loss of epithelial cohesion, increased cellular motility, and altered tissue organization. These changes are commonly associated with disease progression, particularly in epithelial-derived cancers where loss of adhesion contributes to invasive behavior. CDH1 Antibody enables detection of these changes and supports studies examining regulation of epithelial adhesion across biological contexts.

At the molecular level, CDH1 forms complexes with intracellular proteins including beta-catenin and alpha-catenin, linking extracellular adhesion to the actin cytoskeleton. These complexes not only stabilize cell-cell junctions but also integrate adhesion with signaling pathways that regulate proliferation, differentiation, and cell survival. This dual structural and regulatory role positions CDH1 as a central coordinator of epithelial stability.

The recombinant rabbit monoclonal clone CDH1/7034R antibody provides consistent recognition of CDH1 and is well suited for research focused on cell adhesion regulation, epithelial integrity, and intercellular interaction dynamics. This CDH1 antibody supports detailed investigation of how epithelial cells maintain and modulate adhesion under both normal and disease-associated conditions.

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 CDH1 Antibody / Cell Adhesion Regulation Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 600-700 of E-cadherin protein was used as the immunogen for the recombinant CDH1 antibody.

Storage

Aliquot the recombinant CDH1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

E-cadherin antibody, CDH1 antibody, Cadherin 1 antibody, epithelial adhesion protein antibody, adherens junction regulator antibody

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