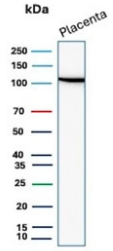
# E-cadherin Antibody / Tumor Suppression and EMT Marker Antibody [clone rCDH1/9615] (V5472)

| Catalog No. | Formulation | Size |
|---|---|---|
| V5472-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5472-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5472SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

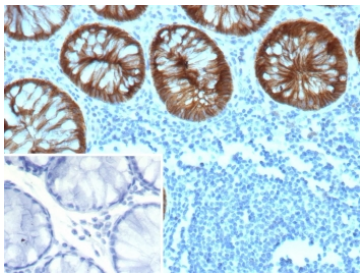
Recombinant | MOUSE MONOCLONAL

**Bulk quote request**

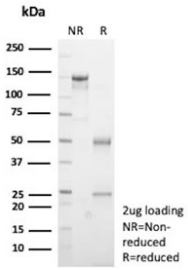
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Recombinant Mouse Monoclonal |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | rCDH1/9615 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P12830 |
| **Localization** | Cell membrane |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml<br>Western Blot : 2-4ug/ml |
| **Limitations** | This E-cadherin Antibody / Tumor Suppression and EMT Marker Antibody is available for research use only. |




E-cadherin Antibody for WB in human placental tissue. Western blot analysis of Cadherin 1 / CDH1 expression using clone CDH1/9615R 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 E-cadherin, and reduced expression of CDH1 is commonly associated with epithelial-to-mesenchymal transition in disease contexts.



IHC staining of FFPE human colon tissue with E-cadherin Antibody / Tumor Suppression and EMT Marker Antibody (clone rCDH1/9615). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




SDS-PAGE analysis of purified, BSA-free recombinant E-Cadherin antibody (clone rCDH1/9615) as confirmation of integrity and purity.

## Description

E-cadherin (CDH1) is a calcium-dependent transmembrane glycoprotein that functions as a key tumor suppressor and central regulator of epithelial cell-cell adhesion. E-cadherin (CDH1) antibody, also known as Cadherin 1 antibody, detects a protein that maintains epithelial integrity and prevents loss of tissue organization. E-cadherin Antibody / Tumor Suppression and EMT Marker Antibody (clone CDH1/9615R) enables detection of this protein in studies focused on epithelial-to-mesenchymal transition and cancer progression.

CDH1 plays a critical role in suppressing tumor invasion by maintaining stable cell-cell adhesion within epithelial tissues. Loss or downregulation of E-cadherin is a hallmark of epithelial-to-mesenchymal transition, a process in which epithelial cells lose adhesion, gain migratory capacity, and adopt a more invasive phenotype. Detection of E-cadherin is therefore widely used to distinguish epithelial and mesenchymal states and to evaluate tumor progression across a range of cancer types.

In cancer biology, reduced CDH1 expression is associated with increased invasiveness, metastasis, and poor clinical outcomes in epithelial-derived tumors such as breast, gastric, and colorectal carcinomas. Conversely, preserved E-cadherin expression supports epithelial differentiation and organized tissue structure. E-cadherin Antibody provides a direct readout of these biological states and is commonly used to assess tumor phenotype and progression.

At the molecular level, E-cadherin interacts with catenins and cytoskeletal components to regulate both adhesion and intracellular signaling pathways. These interactions influence key processes including proliferation, differentiation, and cell survival. Disruption of CDH1-mediated adhesion can alter these pathways and contribute to tumor development and progression.

The recombinant mouse monoclonal clone CDH1/9615R antibody provides consistent detection of E-cadherin and is well suited for studies focused on tumor biology, EMT, and epithelial differentiation. This E-cadherin antibody supports investigation of cancer-related changes in adhesion and provides a valuable tool for analyzing epithelial integrity in disease contexts.

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 / Tumor Suppression and EMT Marker Antibody should be determined by the researcher.

## Immunogen

Recombinant full-length human Cadherin 1 protein was used as the immunogen for the recombinant E-Cadherin antibody.

## Storage

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

## Alternate Names

CDH1 antibody, E-cadherin antibody, Cadherin 1 EMT marker antibody, epithelial to mesenchymal transition antibody, tumor suppression marker antibody