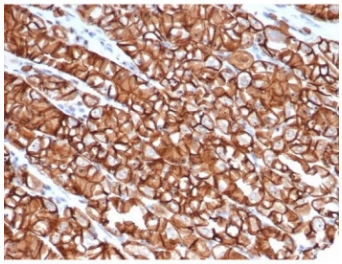
Cadherin 1 Antibody / Intercellular Junction Assembly Antibody [clone rCDH1/6769] (V5471)

Catalog No.	Formulation	Size
V5471-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5471-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5471SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

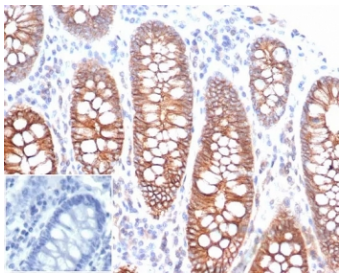
Recombinant | MOUSE MONOCLONAL

Bulk quote request

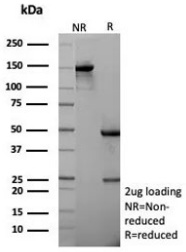
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rCDH1/6769
Purity	Protein A/G affinity
UniProt	P12830
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Cadherin 1 Antibody / Intercellular Junction Assembly Antibody is available for research use only.



Cadherin 1 Antibody Human Stomach IHC. Immunohistochemistry analysis of Cadherin 1 / CDH1 expression in FFPE human stomach tissue using clone rCDH1/6769 antibody, showing strong membranous HRP-DAB brown staining in epithelial cells forming 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 intercellular junction assembly and cohesive epithelial organization within gastric mucosa.



Cadherin 1 Antibody for IHC. Immunohistochemistry analysis of Cadherin 1 / CDH1 expression in FFPE human colon tissue using clone rCDH1/6769 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. 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. Signal highlights organized epithelial architecture and intercellular junction assembly within colon mucosa.



SDS-PAGE analysis of purified, BSA-free recombinant Cadherin 1 antibody (rCDH1/6769) as confirmation of integrity and purity.

Description

Cadherin 1 (CDH1) is a core structural protein required for the assembly and stabilization of intercellular junctions in epithelial tissues. Cadherin 1 (CDH1) antibody, also referred to as E-cadherin antibody, detects a protein that mediates the formation of adherens junctions through calcium-dependent homophilic interactions at the cell surface. Cadherin 1 Antibody / Intercellular Junction Assembly Antibody (clone rCDH1/6769) enables detection of this protein in studies focused on the mechanisms underlying junction formation and epithelial organization.

Junction assembly is a highly coordinated process in which CDH1 molecules from adjacent cells interact to initiate adhesion, followed by recruitment of intracellular proteins that anchor the complex to the actin cytoskeleton. This process establishes stable intercellular connections that are essential for maintaining epithelial tissue integrity. Cadherin 1 antibody is widely used to study the formation and maturation of these junctional complexes in both cultured cells and tissue systems.

Proper assembly of adherens junctions is critical for maintaining cohesive epithelial layers and enabling coordinated cellular behavior. Disruption of CDH1-mediated junction assembly can lead to weakened adhesion, altered tissue structure, and increased cellular motility. CDH1 Antibody supports investigation of these processes by enabling detection of junctional protein expression and organization during different stages of assembly and remodeling.

CDH1 also plays a role in linking junction assembly to intracellular signaling pathways. Through interactions with catenins and other associated proteins, E-cadherin coordinates adhesion with signaling events that regulate cytoskeletal organization, cell shape, and tissue patterning. These interactions are essential for both the establishment and maintenance of epithelial structure.

The recombinant mouse monoclonal clone rCDH1/6769 antibody provides consistent detection of CDH1 and is well suited for studies focused on intercellular junction assembly, epithelial cohesion, and structural organization. This Cadherin 1 antibody supports detailed analysis of how epithelial junctions form, stabilize, and respond to biological changes.

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 Cadherin 1 Antibody / Intercellular Junction Assembly Antibody should be determined by the

researcher.

Immunogen

A recombinant fragment (within amino acids 600-700) of human Cadherin 1 was used as the immunogen for the recombinant Cadherin 1 antibody.

Storage

Aliquot the recombinant Cadherin 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

E-cadherin antibody, CDH1 antibody, Cadherin 1 junction assembly antibody, adherens junction assembly antibody, epithelial junction formation antibody