CDH1 Antibody for IHC / Cadherin 1 Immunohistochemistry Antibody [clone MSVA-035R] (V6150)

Catalog No.	Formulation	Size
V6150-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6150-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MSVA-035R
UniProt	P12830
Localization	Adherens junction, Cell junction, Cell membrane, Endosome, Golgi apparatus, trans-Golgi network
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CDH1 Antibody for IHC / Cadherin 1 Immunohistochemistry Antibody is available for research use only.

CDH1 Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Cadherin 1 / CDH1, also known as E-cadherin, in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using recombinant rabbit monoclonal CDH1 antibody clone MSVA-035R. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates strong membranous localization at epithelial cell-cell junctions, while stromal and non-epithelial tissues remain largely negative. Within tumor tissue microarrays, variable staining patterns are observed, including reduced or absent membranous signal in select malignancies, consistent with loss of epithelial adhesion and tumor progression. Evaluation across large TMA panels enables direct comparison of CDH1 expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported CDH1 expression profiles in the Human Protein Atlas.

Description

Cadherin 1 (CDH1) is a calcium-dependent transmembrane adhesion protein that functions as a core component of adherens junctions in epithelial tissues. CDH1 is predominantly localized to the cell membrane, where it mediates homophilic cell-cell adhesion and maintains epithelial polarity and tissue architecture. CDH1 Antibody for IHC is a widely used tool for visualizing epithelial integrity in formalin-fixed, paraffin-embedded samples, enabling clear assessment of cell junction continuity and tissue organization. CDH1 is also referred to as E-cadherin antibody in the literature, reflecting its established role as a defining epithelial marker across a broad range of tissues.

CDH1 Antibody for IHC / Cadherin 1 Immunohistochemistry Antibody (clone MSVA-035R) is uniquely positioned for high-resolution tissue analysis, particularly in human tissue microarray (TMA) applications where consistent staining across dozens of tissue types is essential. The recombinant rabbit monoclonal clone MSVA-035R antibody produces strong, well-defined membranous staining in epithelial compartments, allowing precise visualization of cell-cell junctions and epithelial layer organization. This clone MSVA-035R antibody supports reproducible immunohistochemistry workflows and enables confident interpretation of staining patterns across both normal and pathological tissues.

In normal tissue microarrays, CDH1 antibody staining is characterized by crisp, continuous membranous signal outlining epithelial cells in tissues such as colon, stomach, breast, prostate, and glandular structures. This highly specific localization provides a clear morphological reference for epithelial differentiation and allows direct comparison across multiple tissues within a single TMA slide. The ability of CDH1 IHC antibody to generate uniform staining across diverse epithelial types makes it especially valuable for large-scale tissue profiling and validation studies.

In cancer tissue microarrays, CDH1 antibody reveals biologically significant alterations in epithelial adhesion. Loss of membranous staining, fragmentation of junctional signal, or redistribution to cytoplasmic compartments are commonly observed in tumors undergoing epithelial-to-mesenchymal transition. These changes are particularly evident in invasive lobular breast carcinoma, diffuse gastric carcinoma, and other malignancies where CDH1 loss is a defining molecular feature. The use of CDH1 antibody for IHC across TMA cohorts enables side-by-side evaluation of tumor subtypes and provides insight into disease progression and tumor biology.

At the molecular level, E-cadherin forms complexes with beta-catenin and alpha-catenin to link the actin cytoskeleton with cell adhesion machinery. Disruption of this complex not only weakens cell-cell adhesion but also alters intracellular signaling pathways involved in proliferation, differentiation, and migration. CDH1 immunohistochemistry antibody is therefore widely used to study both structural and signaling aspects of epithelial biology, bridging morphological observations with functional mechanisms.

This CDH1 antibody is particularly well suited for TMA-driven immunohistochemistry workflows, where high-throughput analysis of normal and cancer tissues requires consistent performance and clear staining interpretation. The robust membranous signal produced by clone MSVA-035R across a wide range of epithelial tissues supports reliable identification of epithelial compartments and facilitates comparative analysis of adhesion status in large sample sets.

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.

This antibody is also part of a broader collection of IHC antibodies validated by tissue microarray analysis, supporting consistent staining across normal and cancer tissues.

Application Notes

1. Optimal dilution of the CDH1 Antibody for IHC / Cadherin 1 Immunohistochemistry Antibody should be determined by the researcher.

2. This CDH1 / Cadherin 1 antibody is recombinantly produced by expression in human HEK293 cells.

3. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a

dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

Recombinant full-length human E-Cadherin protein was used as the immunogen for the CDH1 / Cadherin 1 antibody.

Storage

CDH1 / Cadherin 1 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

Alternate Names

E-cadherin antibody, CDH1 IHC antibody, E-cadherin immunohistochemistry antibody, epithelial marker IHC antibody, adherens junction protein antibody