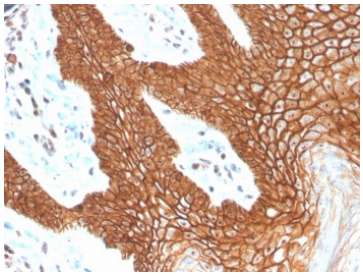
Recombinant E-Cadherin Antibody / CDH1 [clone CDH1/4398R] (V8662)

Catalog No.	Formulation	Size
V8662-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8662-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8662SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

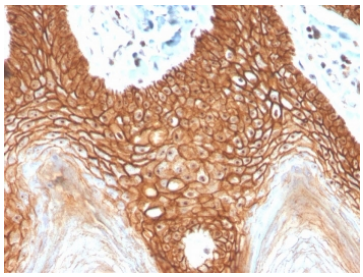
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	CDH1/4398R
Purity	Protein A affinity chromatography
UniProt	P12830
Localization	Cytoplasmic, membranous
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant E-Cadherin antibody is available for research use only.



IHC staining of FFPE human cervix with recombinant E-Cadherin antibody (clone CDH1/4398R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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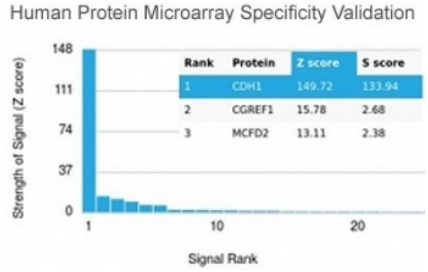

Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant E-Cadherin antibody. These results demonstrate the foremost specificity of the CDH1/4398R mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant E-Cadherin antibody detects E-cadherin, a calcium-dependent adhesion glycoprotein encoded by the CDH1 gene. E-cadherin is expressed in epithelial tissues, where it maintains cell-cell adhesion, polarity, and tissue architecture. Loss or dysfunction of E-cadherin is a hallmark of epithelial-mesenchymal transition and cancer progression. Because of its roles in adhesion and tumor suppression, Recombinant E-Cadherin antibody is widely used in oncology, developmental biology, and pathology.

E-cadherin consists of five extracellular cadherin repeats, a single transmembrane domain, and a cytoplasmic tail that interacts with catenins. This interaction links cadherins to the actin cytoskeleton, stabilizing junctions and regulating signaling pathways. Proper expression of E-cadherin maintains epithelial barrier integrity, while reduced expression promotes invasiveness and metastasis in carcinomas.

The Recombinant E-Cadherin antibody clone CDH1/4398R provides consistent and specific detection. Recombinant production ensures reproducibility across batches, minimizing variability. Clone CDH1/4398R has been cited in peer-reviewed studies exploring EMT, cancer biology, and epithelial differentiation. It is suitable for immunohistochemistry, Western blotting, and immunofluorescence.

Research using clone CDH1/4398R has shown how E-cadherin loss correlates with poor prognosis in breast, gastric, and colorectal cancers. Detection with this antibody supports diagnostic pathology by distinguishing epithelial tumors from non-epithelial neoplasms. Beyond oncology, studies have used this antibody to examine epithelial barrier function in inflammation and developmental processes that require dynamic regulation of adhesion.

NSJ Bioreagents provides this Recombinant E-Cadherin antibody to support oncology, pathology, and epithelial biology research. Alternate terms include CDH1 antibody, cadherin-1 antibody, epithelial cadherin antibody, uvomorulin antibody, epithelial tumor suppressor antibody, and calcium-dependent adhesion glycoprotein antibody.

Application Notes

Optimal dilution of the recombinant E-Cadherin antibody should be determined by the researcher.

Immunogen

A portion of amino acids 600-700 from the human protein was used as the immunogen for the recombinant E-Cadherin

antibody.

Storage

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