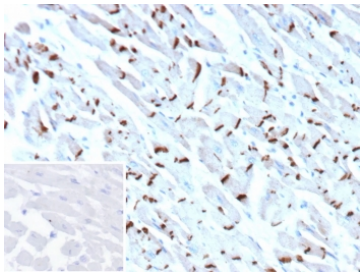
Cadherin 2 Antibody / CDH2 / N-Cadherin [clone CDH2/9493] (V5635)

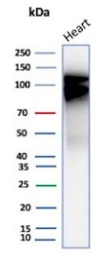
Catalog No.	Formulation	Size
V5635-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5635-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5635SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

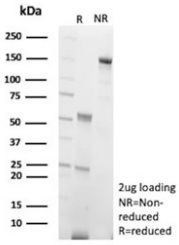
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CDH2/9493
Purity	Protein G affinity
UniProt	P19022
Localization	Cell surface, cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This Cadherin 2 antibody is available for research use only.



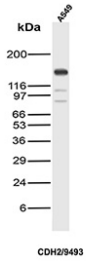
Cadherin 2 Antibody IHC. Immunohistochemistry staining of FFPE human heart tissue with Cadherin 2 antibody (clone CDH2/9493). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human heart tissue lysate with Cadherin 2 antibody (clone CDH2/9493). Predicted molecular weight ~100 kDa (unmodified), 125-140 kDa (modified).



SDS-PAGE analysis of purified, BSA-free Cadherin 2 antibody (clone CDH2/9493) as confirmation of integrity and purity.



Cadherin 2 Antibody WB. Western blot analysis of N-Cadherin / CDH2 expression in A549 cell lysate using Cadherin 2 antibody clone CDH2/9493. Lane 1: A549 cell lysate. A distinct band is detected at approximately 120-135 kDa, consistent with the predicted molecular weight of N-Cadherin (CDH2), with the slightly higher apparent migration reflecting known glycosylation of this transmembrane adhesion protein. Additional faint lower bands may represent proteolytic processing or degradation products. The observed expression in A549 cells is consistent with N-Cadherin involvement in epithelial-to-mesenchymal transition and tumor-associated cellular remodeling.

Description

Cadherin 2 Antibody recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325. NCAD is a member of the Cadherin superfamily, and consists of five extracellular repeats, a transmembrane domain and a cytoplasmic domain. CD325 deficient mice die at day 10 of gestation and embryos display major heart defects and malformed neural tubes and somites. Consistent with this, CD325 has been implicated in several aspects of cardiac development including the precardiac mesoderm, establishment of left-right symmetry and cardiac looping morphogenesis. Furthermore, CD325 is normally involved in inducing cell cycle arrest and its expression is frequently deregulated in cancer cells. Studies have linked N-cadherin to cancer metastasis by showing the aggressive tumor cells had preferentially turned on N-cadherin as opposed to E- or P-cadherin.

For additional information on Cadherin 2/N-Cadherin and its roles in cell-cell adhesion, epithelial-mesenchymal transition, and cancer biology, see our Cadherin 2 Antibody / CDH2 page.

Application Notes

Optimal dilution of the Cadherin 2 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 400-600 from human Cadherin 2 protein was used as the immunogen for the Cadherin 2 antibody.

Storage

Aliquot the Cadherin 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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