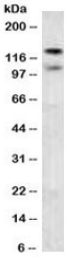
CDH2 Antibody 8C11 / N-Cadherin [clone 8C11] (V3391)

Catalog No.	Formulation	Size
V3391-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3391-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3391SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

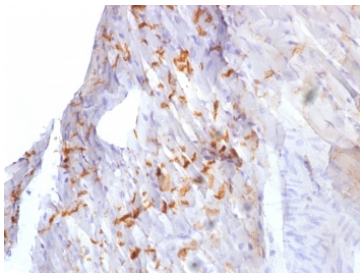
Citations (24)

Bulk quote request

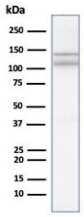
Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	8C11
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P19022
Localization	Cell surface, cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-3ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CDH2 Antibody 8C11 is available for research use only.



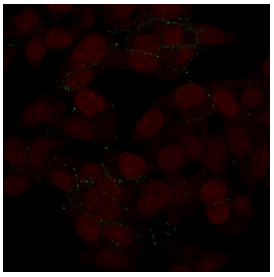
CDH2 Antibody 8C11 Human Brain Tissue WB. Western blot testing of human brain lysate with CDH2 antibody (clone 8C11). Predicted molecular weight ~100 kDa (unmodified), 125-140 kDa (modified).



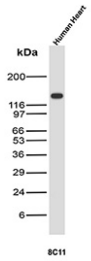
CDH2 Antibody 8C11 Mouse Heart Tissue IHC. Immunohistochemistry testing of FFPE mouse heart tissue with CDH2 antibody (clone 8C11). Required HIER: boil tissue sections in 10mM Tis with pH 9 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



CDH2 Antibody 8C11 WB. Western blot testing of human heart tissue lysate with CDH2 antibody (clone 8C11). Predicted molecular weight ~100 kDa (unmodified), 125-140 kDa (modified).



CDH2 Antibody 8C11 IF. Immunofluorescent staining of human HeLa cells with CDH2 antibody (clone 8C11, green) and Reddot nuclear stain (red).



CDH2 Antibody Clone 8C11 Tissue WB. Western blot analysis of N-Cadherin / CDH2 expression in human heart tissue lysate using CDH2 antibody clone 8C11. Lane 1: human heart lysate. A strong band is detected at approximately 120-135 kDa, consistent with the predicted molecular weight of N-Cadherin (CDH2), with the higher apparent migration reflecting known glycosylation of this transmembrane adhesion protein. The robust signal in cardiac tissue aligns with the well-established role of N-Cadherin in mediating cardiomyocyte cell-cell adhesion within intercalated discs.

Description

CDH2 Antibody 8C11 / N-Cadherin is a mouse monoclonal antibody recognizing Cadherin 2, a calcium-dependent cell adhesion protein encoded by the CDH2 gene. Commonly known as N-Cadherin and CD325, CDH2 is a classical cadherin that mediates homophilic interactions between neighboring cells and contributes to the formation and maintenance of adherens junctions. N-Cadherin contains extracellular cadherin domains, a transmembrane region, and a cytoplasmic domain that interacts with catenins and the actin cytoskeleton. These molecular interactions connect cell-cell adhesion with cytoskeletal organization and intracellular signaling.

N-Cadherin is prominently expressed in neural, cardiac, and mesenchymal tissues and has important functions during embryonic development. In the nervous system, CDH2 participates in neuronal migration, neurite development, axon guidance, synapse formation, and synaptic organization. In cardiac tissue, N-Cadherin is an important component of intercalated discs and contributes to mechanical coupling and structural organization between cardiomyocytes. A CDH2 Antibody can therefore support research into cell-cell junctions, neural development, cardiac biology, tissue morphogenesis, and mechanisms regulating cellular adhesion.

CDH2 is also extensively investigated in epithelial-mesenchymal transition and cancer progression. Increased N-Cadherin expression frequently accompanies the transition from an epithelial toward a more motile mesenchymal phenotype, often

in association with reduced E-Cadherin expression. This phenomenon, commonly referred to as cadherin switching, is studied in relation to tumor cell migration, invasion, metastatic potential, and altered interactions with surrounding cells. N-Cadherin is consequently an important target in research examining EMT, tumor progression, cellular differentiation, and adhesion-associated signaling. CDH2 Antibody clone 8C11 has been used extensively in published research across these and other areas of cell biology.

Clone 8C11 recognizes an extracellular region of N-Cadherin and has a long history as a research reagent. Independent commercial literature databases currently associate the clone with dozens of scientific publications, supporting its established use in CDH2 research. NSJ Bioreagents offers clone 8C11, a mouse monoclonal antibody, for investigating N-Cadherin expression and localization. This CDH2 Antibody clone provides a well-established reagent with numerous published research uses for studies of N-Cadherin, cell-cell adhesion, adherens junctions, EMT, neural and cardiac biology, and cancer.

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

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CDH2 Antibody 8C11 to be titered up or down for optimal performance.

Immunogen

A human partial recombinant protein corresponding to the N-Cadherin extracellular domain was used as the immunogen for this CDH2 Antibody 8C11.

Storage

Store the CDH2 Antibody 8C11 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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