

CDH2 Antibody / N-Cadherin / CD325 [clone 8C11] (V3391)

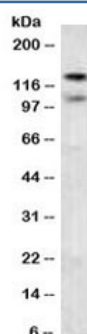
Catalog No.	Formulation	Size
V3391-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3391-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3391SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



Citations (24)

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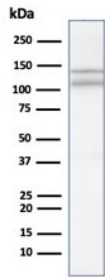
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	8C11
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P19022
Localization	Cell surface, cytoplasmic
Applications	Flow cytometry : 1-2ug/10 ⁶ cells Immunofluorescence : 1-2ug/ml Western blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CDH2 antibody is available for research use only.



Western blot testing of human brain lysate with CDH2 antibody. Predicted molecular weight ~100 kDa (unmodified), 125-140 kDa (modified).



IHC testing of FFPE mouse heart tissue with CDH2 antibody. Required HIER: boil tissue sections in 10mM Tris with pH 9 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



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

Description

Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CDH2 and CD325. CDH2 is a member of the Cadherin superfamily, and consists of five extracellular repeats, a transmembrane domain and a cytoplasmic domain. CDH2 deficient mice die at day 10 of gestation and embryos display major heart defects and malformed neural tubes and somites. Consistent with this, the protein has been implicated in several aspects of cardiac development including the precardiac mesoderm, establishment of left-right symmetry and cardiac looping morphogenesis. Furthermore, it 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.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CDH2 antibody to be titrated 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.

Storage

Store the CDH2 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

