

Product Datasheet

N-Cadherin Antibody / CDH2 (orb2640212)

Description	Recognizes a protein of ~140 kDa, identified as N-Cadherin (NCAD), also known as CDH2 and CD325. NCAD is a member of the Cadherin superfamily, and consists of five extracellular repeats, a transmembrane domain and a cytoplasmic domain. NCAD/CD325 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.
Species/Host	Mouse
Reactivity	Human, Mouse
Conjugation	Unconjugated
Tested Applications	FACS, IF, WB
Immunogen	A human partial recombinant protein corresponding to the CDH2/NCAD cytoplasmic domain was used as the immunogen for this N-Cadherin antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the N-Cadherin antibody to be titrated up or down for optimal performance.

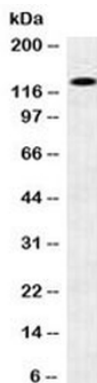
Biorbyt Ltd.

7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
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Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	13A9
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P19022
Hazard Information	This N-Cadherin antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml
Expiration Date	12 months from date of receipt.



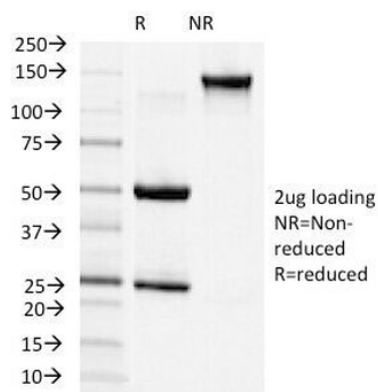
Western blot testing of human brain lysate with N-Cadherin antibody. Predicted molecular weight ~100 kDa (unmodified), 125-140 kDa (modified).

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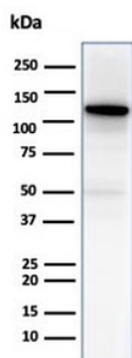
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SDS-PAGE Analysis of Purified, BSA-Free N-Cadherin Antibody (clone 13A9). Confirmation of Integrity and Purity of the Antibody.



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

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