

## Anti-N-Cadherin-2 CDH2 CD325-Monoclonal Antibody

Catalog Number: M01577

### About CDH2

Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325. N-cadherin is a 140 kDa protein belonging to a family of transmembrane molecules that mediate calcium-dependent intercellular adhesion. Cadherins are involved in controlling morphogenetic movements during development and regulate cell surface adhesion through homotypic adhesion with the same cadherin species. Expression of N-cadherin has been reported on a variety of normal tissues including neuronal, endothelial and muscle cells, and a subpopulation of early hematopoietic progenitor cells. Results aid in the classification of malignant non-carcinomatous neoplasms including mesotheliomas, chordomas, synovial sarcomas, malignant melanomas, epithelioid sarcomas, epithelioid angiosarcomas, clear cell sarcomas as well as serous and endometrioid tumors of the ovary have been demonstrated to be N-cadherin positive, whereas mucinous tumors are negative. Other N-cadherin-positive neoplasms include renal cell carcinomas and some variant breast tumors, including medullary breast carcinomas and sarcomatoid metaplastic breast carcinomas.

### Overview

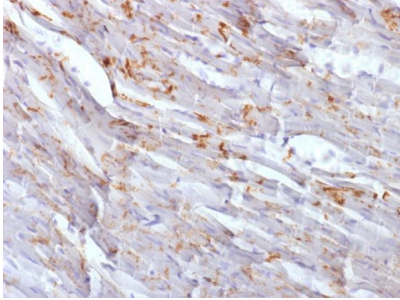
Product Name	Anti-N-Cadherin-2 CDH2 CD325-Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-N-Cadherin-2 CDH2 CD325-Monoclonal Antibody (Catalog # M01577). Tested in IHC applications. This antibody reacts with Human, Mouse.
Conjugate	Biotin
Application	IHC
Clonality	Monoclonal Clone: CDH2/1573
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P19022

### Technical Details

Immunogen	Recombinant human CDH2 intracellular domain
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.</p>

## Anti-N-Cadherin-2 CDH2 CD325-Monoclonal Antibody (M01577) Images



Formalin-fixed, paraffin-embedded Mouse Heart stained with Anti-N-Cadherin Mouse Monoclonal Antibody (CDH2/1573).

## 8 Publications Citing This Product

1. PubMed ID: 33069797, Shi R,Liu L,Wang F,He Y,Niu Y,Wang C,Zhang X,Zhang X,Zhang H,Chen M,Wang Y.Downregulation of cytokeratin 18 induces cellular partial EMT and stemness through increasing EpCAM expression in breast cancer.Cell Signal.2020 Dec;76:109810.doi:10.1016/j.cellsig
2. PubMed ID: 27599468, Ionizing radiation promotes migration and invasion of cancer cells through transforming growth factor-beta-mediated epithelial-mesenchymal transition
3. PubMed ID: 30086384, Expression of N-cadherin in myocardial tissues during the development of a rat heart

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