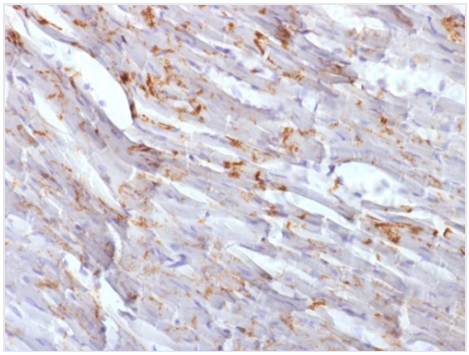
N-Cadherin/Cadherin-2/CD325 (NCAD) Antibody – Mouse Monoclonal

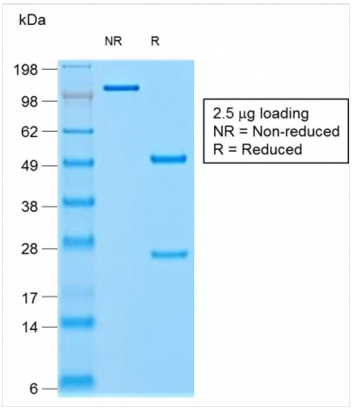
PRODUCT OVERVIEW

Product Name	N-Cadherin/Cadherin-2/CD325 (NCAD), Monoclonal Antibody
Full Product Name	N-Cadherin/Cadherin-2/CD325 (NCAD)
Product Gene Name	anti-NCAD antibody
Product Synonym Gene Name	CDH2; CD325
Product Synonym Names	Cadherin-2 N cadherin neuronal; Cadherin-2 type 1; Cadherin-2; Calcium dependent adhesion protein neuronal; CD325; CDH2; CDHN; CDw325; N-Cadherin; NCAD
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CDH2/1573
Host	Mouse
Species Reactivity	Human, Mouse. Others not known.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Specificity	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.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Molecular Weight	130-140kDa
3D Structure	ModBase 3D Structure for P19022
Immunogen	Recombinant human CDH2 intracellular domain
Cellular Localization	Cell Surface
Hu-chromosome Location	18q11.2
Positive Control	HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex
Applications Tested/Suitable for anti-NCAD antibody	Flow Cytometry (FC/FACS), Immunofluorescence (IF), Western Blot (WB), Immunohistochemistry (IHC) Formalin
Application Notes for anti-NCAD antibody	FC/FACS: 0.5-1ug/million cells IF: 1-2ug/ml WB: 0.5-1.0ug/ml IHC-F: 0.5-1.0ug/ml for 30 minutes at RT; Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tis with1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes.

Related Product Information for anti-NCAD antibody	MBS438963 is an antibody targeting NCAD. Also known as N-Cadherin/Cadherin-2/CD325 (NCAD). Reactive in Human, Mouse. Others not known.. Host: Mouse.
Product References and Citations for anti-NCAD antibody	Han AC, Peralta Soler A, Knudsen KA, Wheelock MJ, Johnson KR, Salazar H. Differential expression of N-cadherin in pleural mesotheliomas and E-cadherin in lung adenocarcinomas in formalin-fixed, paraffin-embedded tissues. Hum Pathol. 1997; 28(6):641
Other Notes	Small volumes of anti-NCAD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-NCAD antibody
Formalin-fixed, paraffin-embedded Mouse Heart stained with N-Cadherin Monoclonal Antibody (CDH2/1573).



SDS-Page of anti-NCAD antibody
SDS-PAGE Analysis of Purified Chromogranin A Mouse Recombinant Monoclonal Antibody (rCHGA/798).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCAD. It may not necessarily be applicable to this product.

NCBI GI #	815890961
NCBI GeneID	1000
NCBI Accession #	NP_001295105.1
UniProt Primary Accession #	P19022
UniProt Secondary Accession #	Q14923; Q8N173; A8MWK3; B0YIY6
UniProt Related Accession #	P19022
GenBank Nucleotide #	NM_001308176.1
NCBI Official Full Name	cadherin-2 isoform 2
NCBI Official Synonym Full Names	cadherin 2
NCBI Official Symbol	CDH2
NCBI Official Synonym Symbols	CDHN; NCAD; CD325; CDw325
UniProt Protein Name	Cadherin-2
UniProt Synonym Protein Names	CDw325; Neural cadherin; N-cadherin; CD_antigen: CD325
UniProt Gene Name	CDH2
UniProt Synonym Gene Names	CDHN; NCAD; N-cadherin
NCBI Protein Information	cadherin-2

NCBI Summary for NCAD	This gene encodes a classical cadherin and member of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein is proteolytically processed to generate a calcium-dependent cell adhesion molecule and glycoprotein. This protein plays a role in the establishment of left-right asymmetry, development of the nervous system and the formation of cartilage and bone. [provided by RefSeq, Nov 2015]
UniProt Comments for NCAD	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. Acts as a regulator of neural stem cells quiescence by mediating anchorage of neural stem cells to ependymocytes in the adult subependymal zone: upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading to modulate neural stem cell quiescence. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density ().
Research Articles on NCAD	**1.** In patients with gastric cancer, the strong expression of N-cadherin in lymph nodes correlated with more lymph nodes metastasis, an advanced stage, and poor prognosis
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