

## Product datasheet for TA336779

### N Cadherin (CDH2) Mouse Monoclonal Antibody [Clone ID: 13A9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	13A9
Applications:	IF, IHC, WB
Recommend Dilution:	WB: 0.5 ug/ml, IF: 1:100, IHC: 1:50-1:200, IHC-P: 1:50-1:100, IP: 1:10-1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Cytoplasmic domain of human N Cadherin [Swiss-Prot# P19022]
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	1 mg/ml
Purification:	Protein G purified
Predicted Protein Size:	140 kDa
Gene Name:	cadherin 2
Database Link:	<a href="#">NP_001783 Entrez Gene 12558 Mouse</a> <a href="#">Entrez Gene 83501 Rat</a> <a href="#">Entrez Gene 1000 Human</a>



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**Background:**

N-cadherin (neuronal cadherin; or CDH2/cadherin 2) is a calcium-binding, single pass transmembrane cell adhesion molecule (CAM) that was originally believed to be expressed only by neural cells, but subsequently demonstrated in endothelial cells and pericytes of microvessels, as well as in a variety of poorly differentiated carcinomas. N-cadherin is found in many different types of intercellular junctions, such as adherens junctions and pericyte-endothelial cell junctions, as well as being distributed on the cell surface in non-junctional complexes. It interacts with CDCP1 and forms a part of complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN. It also interact with PCDH8 and TAOK2, and the interaction with PCDH8 leads to internalization through TAOK2/p38 MAPK pathway. N-cadherin promotes the formation of stable intercellular junctions and in addition to mediating cell adhesion, it has several other functions such as activation of FGFR, promotion of vascular smooth muscle and cancer cell migration as well as neurite outgrowth on astrocytes, and contrastingly, inhibits Schwann cell migration on astrocytes. Along with vimentin, N-cadherin has emerged as an important marker of EMT in embryonic development and carcinogenic progression.

**Synonyms:**

CD325; CDHN; CDw325; NCAD

**Note:**

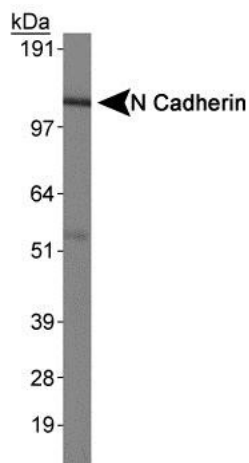
This N Cadherin (13A9) antibody is useful for Immunofluorescence/Immunocytochemistry, Immunoprecipitation, Immunohistochemistry on paraffin-embedded sections and Western Blot, where a band is observed at ~140 kDa.

**Protein Families:**

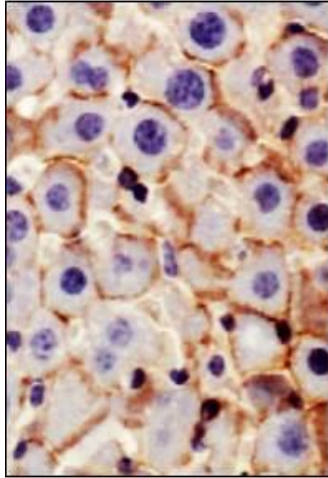
Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:**

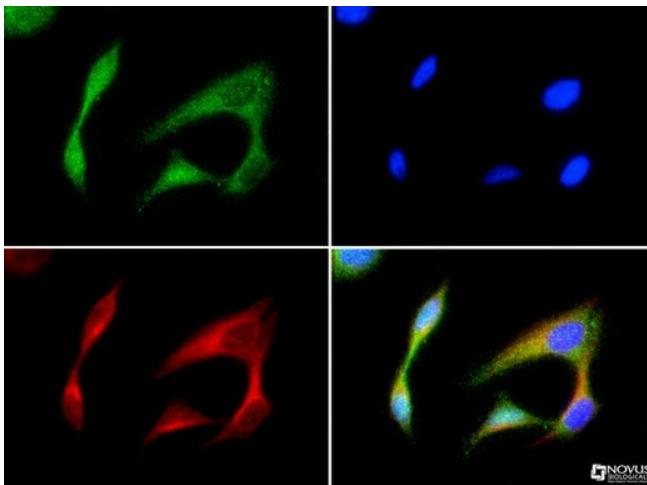
Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs)

**Product images:**

Western Blot: N Cadherin Antibody (13A9)  
TA336779 - Analysis of N Cadherin expression in  
HeLa whole cell lysate.



Immunohistochemistry: N Cadherin Antibody (13A9) TA336779 - IHC analysis of N Cadherin in mouse liver using DAB with hematoxylin counterstain.



Immunocytochemistry/Immunofluorescence: N Cadherin Antibody (13A9) TA336779 - N Cadherin antibody was tested in HeLa cells with FITC (green). Nuclei and alpha-tubulin were counterstained with Dapi (blue) and Dylight 550 (red).