



Datasheet for ABIN968250

anti-N-Cadherin antibody (AA 802-819)



[Go to Product page](#)

4 Images

5 Publications

Overview

Quantity:	150 µg
Target:	N-Cadherin (CDH2)
Binding Specificity:	AA 802-819
Reactivity:	Human, Mouse, Rat, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This N-Cadherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Mouse N-Cadherin aa. 802-819
Clone:	32-N
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus), Chicken
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target: N-Cadherin (CDH2)

Alternative Name: N-Cadherin ([CDH2 Products](#))

Background: Cadherins are a family of Ca²⁺-dependent intercellular adhesion molecules that play a central role in controlling morphogenetic movements during development. Their function is regulated by association with the actin cytoskeleton by a complex of cytoplasmic proteins called the catenins (alpha, beta, gamma). Members of the cadherin family include P-cadherin, E-cadherin (uvomorulin), N-cadherin (neural cadherin), R-cadherin, cadherin 5, L-CAM, and EP-cadherin. N-cadherin mRNA is found at elevated levels in brain and heart and at a much lower level in liver. Mechanisms such as mRNA expression, cytokine modulation, and protease-mediated turnover modulate N-cadherin protein levels during development. In addition, N-cadherin function is indirectly regulated by endogenous kinases and phosphatases. Tyrosine phosphorylation of beta-catenin complexed with N-cadherin results in dissociation of N-cadherin from actin. However, N-cadherin also interacts with a PTP1B-like phosphatase that dephosphorylates beta-catenin and promotes N-cadherin/actin association. Thus, N-cadherin is an integral adhesion molecule whose function is regulated by protein-protein interactions and phosphorylation/dephosphorylation events.

Molecular Weight: 130 kDa

Pathways: [Regulation of Muscle Cell Differentiation](#), [Cell-Cell Junction Organization](#), [Synaptic Membrane](#)

Application Details

Comment: Related Products: ABIN967389, ABIN968535

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

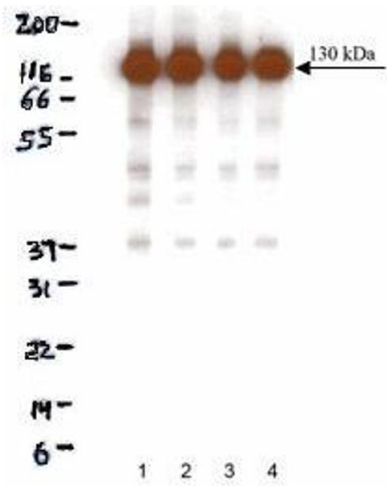
Product cited in: Izawa, Nishizawa, Ohtakara, Inagaki: "Densin-180 interacts with delta-catenin/neural plakophilin-related armadillo repeat protein at synapses." in: **The Journal of biological chemistry**, Vol. 277, Issue 7, pp. 5345-50, (2002) ([PubMed](#)).

Nürnberg, Bacallao, Phillips: "Inversin forms a complex with catenins and N-cadherin in polarized epithelial cells." in: **Molecular biology of the cell**, Vol. 13, Issue 9, pp. 3096-106, (2002) ([PubMed](#)).

Bhowmick, Ghiassi, Bakin, Aakre, Lundquist, Engel, Arteaga, Moses: "Transforming growth factor-beta1 mediates epithelial to mesenchymal transdifferentiation through a RhoA-dependent mechanism." in: **Molecular biology of the cell**, Vol. 12, Issue 1, pp. 27-36, (2001) ([PubMed](#)).

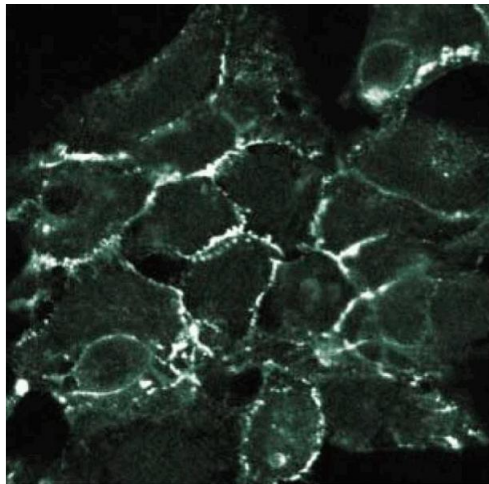
Cowin: "Unraveling the cytoplasmic interactions of the cadherin superfamily." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 91, Issue 23, pp. 10759-61, (1994) ([PubMed](#)).

Miyatani, Shimamura, Hatta, Nagafuchi, Nose, Matsunaga, Hatta, Takeichi: "Neural cadherin: role in selective cell-cell adhesion." in: **Science (New York, N.Y.)**, Vol. 245, Issue 4918, pp. 631-5, (1989) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of N-Cadherin on HeLa lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000, lane 4: 1:2000 dilution of anti-N-Cadherin.



Immunofluorescence

Image 2. Immunofluorescent staining of 293 cells with anti-N-Cadherin.

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968250.