

Datasheet for ABIN6939014

## anti-N-Cadherin antibody (Intracellular)



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### 2 Images

#### Overview

Quantity:	100 µg
Target:	N-Cadherin (CDH2)
Binding Specificity:	Intracellular
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This N-Cadherin antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

#### Product Details

Immunogen:	Recombinant human CDH2 intracellular domain
Clone:	CDH2-1573
Isotype:	IgG1
Specificity:	Recognizes a protein of ~140 kDa, 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,

## Product Details

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.

Cross-Reactivity (Details):	Human, Mouse,
Purification:	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

## Target Details

Target:	N-Cadherin (CDH2)
Alternative Name:	CDH2 ( <a href="#">CDH2 Products</a> )
Background:	<p>Cadherin-2 N cadherin neuronal, Cadherin-2 type 1, Cadherin-2, Calcium dependent adhesion protein neuronal, CD325, CDH2, CDHN, CDw325, N-Cadherin, NCAD,N-Cadherin / Cadherin-2 / CD325 (NCAD)</p> <p>Cellular localisation: Cell surface</p>
Molecular Weight:	130-140kDa
Gene ID:	1000, 464829
UniProt:	<a href="#">P19022</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Cell-Cell Junction Organization</a> , <a href="#">Synaptic Membrane</a>

## Application Details

Application Notes:	<p>Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex.</p> <p>Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM 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>
Restrictions:	For Research Use only

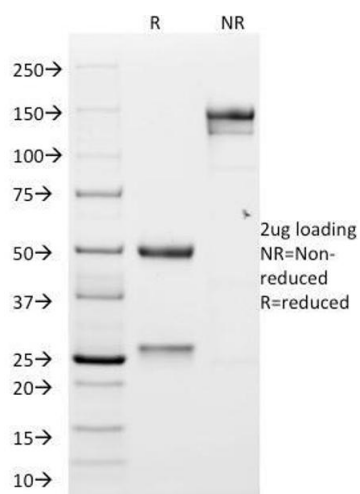
## Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

Handling

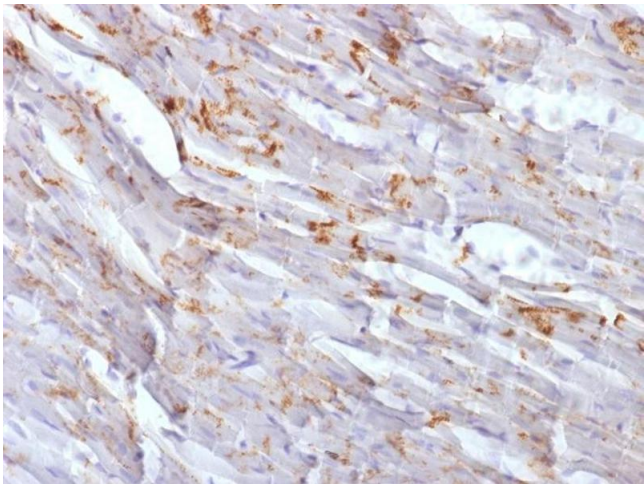
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified N-Cadherin Mouse Monoclonal Antibody (CDH2/1573). Confirmation of Integrity and Purity of Antibody.



Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded Mouse Heart stained with N-Cadherin Mouse Monoclonal Antibody (CDH2/1573).