

Datasheet for ABIN6939013

**anti-N-Cadherin antibody (Extracellular Domain)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	N-Cadherin (CDH2)
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This N-Cadherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

## Product Details

Immunogen:	Recombinant human N-cadherin extracellular domain
Clone:	8C11
Isotype:	IgG1
Specificity:	<p>Recognizes a protein of ~140 kDa, identified as N-Cadherin (NCAD), also known as CD325. NCAD is a member of the Cadherin superfamily, and consists of five extracellular repeats, a transmembrane domain and a cytoplasmic domain. CD325 deficient mice die at day 10 of gestation and embryos display major heart defects and malformed neural tubes and somites. Consistent with this, CD325 has been implicated in several aspects of cardiac development including the precardiac mesoderm, establishment of left-right symmetry and cardiac looping morphogenesis. Furthermore, CD325 is normally involved in inducing cell cycle arrest and its</p>

## Product Details

expression is frequently deregulated in cancer cells. Studies have linked N-cadherin to cancer metastasis by showing the aggressive tumor cells had preferentially turned on N-cadherin as opposed to E- or P-cadherin.

Cross-Reactivity (Details): Human and Mouse. Others not known.

Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

## Target Details

Target: N-Cadherin (CDH2)

Alternative Name: CDH2 ([CDH2 Products](#))

Background: 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)  
Cellular localisation: Cell surface

Molecular Weight: 130-140kDa

Gene ID: 1000, 464829

UniProt: [P19022](#)

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

## Application Details

Application Notes: Positive Control: HeLa or HUVEC cells. Human heart, pancreas or cerebral cortex (IHC).  
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blotting (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tis with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

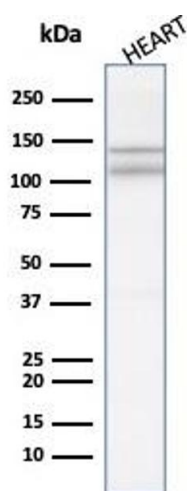
Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

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:	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



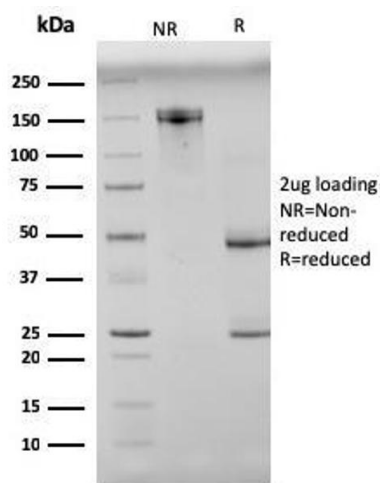
### Western Blotting

**Image 1.** Western blot analysis of Heart tissue lysate using N-Cadherin Mouse Monoclonal Antibody (8C11).



### Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded Mouse Heart stained with N-Cadherin Mouse Monoclonal Antibody (8C11).



SDS-PAGE

**Image 3.** SDS-PAGE Analysis Purified N-Cadherin Mouse Monoclonal Antibody (8C11). Confirmation of Integrity and Purity of Antibody.