

Datasheet for ABIN7504129

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

Overview

Quantity:	100 µg
Target:	N-Cadherin (CDH2)
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This N-Cadherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant full-length human CDH2 protein
Isotype:	IgG
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 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</p>

Product Details

opposed to E- or P-cadherin.

Cross-Reactivity (Details): Human.

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: Human heart, pancreas or cerebral cortex (IHC).
Known Application: Western Blot (1-2 µg/mL), 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 °C 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.

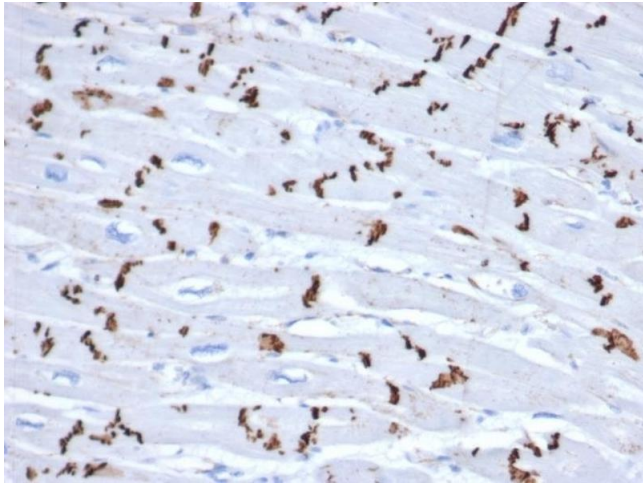
Preservative: Sodium azide

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

Handling

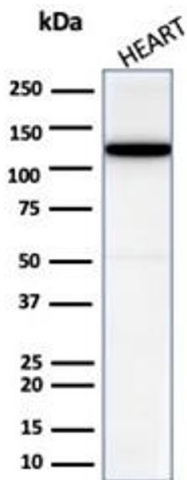
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



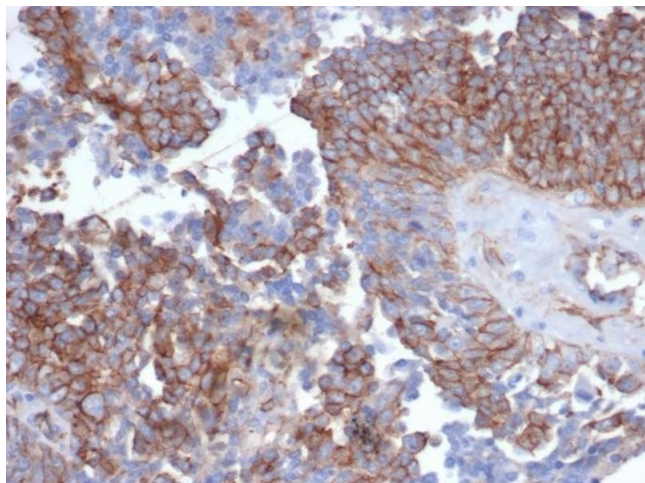
Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded human heart stained with N-Cadherin Recombinant Rabbit Monoclonal Antibody (CDH2/6857R).



Western Blotting

Image 2. Western blot analysis of human heart tissue lysate using N-Cadherin Recombinant Rabbit Monoclonal Antibody (CDH2/6857R).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with N-Cadherin Recombinant Rabbit Monoclonal Antibody (CDH2/6857R).