Datasheet for ABIN7504128

Recombinant anti-N-Cadherin antibody

2 Images

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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:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant full-length human CDH2 protein
Isotype:	IgG
Specificity:	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 opposed to E- or P-cadherin.

Product Details

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: 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 with1 mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

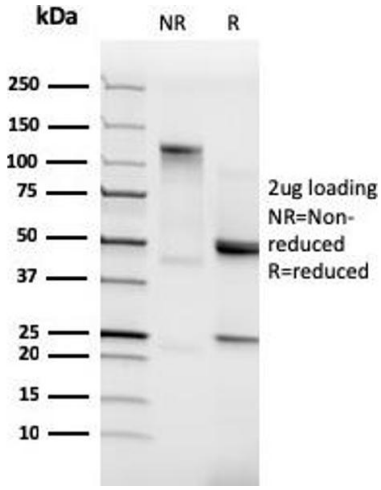
Handling

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.
Storage:	4 °C,-80 °C

Handling

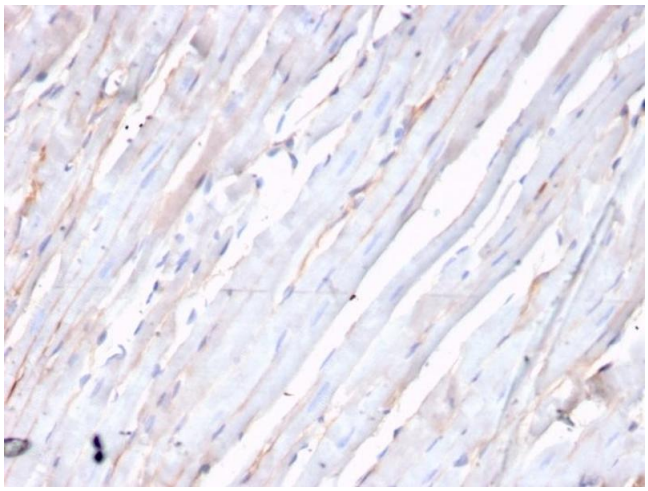
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



Western Blotting

Image 1. SDS-PAGE Analysis Purified N-Cadherin Recombinant Rabbit Monoclonal (CDH2/3874R). Confirmation of Integrity and Purity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human heart stained with N-Cadherin Recombinant Rabbit Monoclonal Antibody (CDH2/3874R).