

## Recombinant N-Cadherin / Cadherin-2 / CD325 (NCAD) Antibody

Mouse Monoclonal Antibody [Clone rCDH2/8291]

Catalog No	Format	Size
1000-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1000-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1000-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

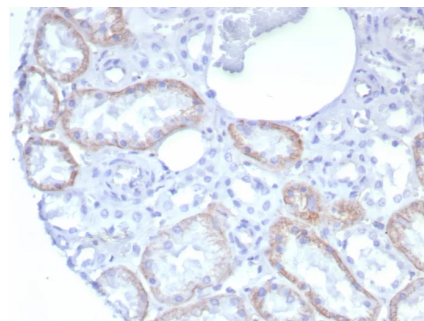
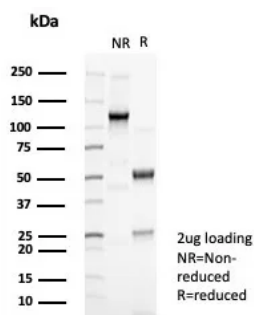
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

Clone	rCDH2/8291
Gene Name	CDH2
Immunogen	Recombinant fragment (around aa605-905) of human CDH2 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	130-140kDa
Cellular Localization	Cell surface
Species Reactivity	Human
Positive Control	Human heart pancreas or cerebral cortex (IHC).

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant N-Cadherin / Cadherin-2 / CD325 (NCAD) Antibody



SDS-PAGE Analysis of Purified N-CAD Recombinant Mouse Monoclonal Antibody (rCDH2/8291). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human kidney stained with N-Cadherin Recombinant Mouse Monoclonal Antibody (rCDH2/8291). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

### **Specificity & Comments**

Recognizes a protein of ~140kDa, 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.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

Cardiovascular, Developmental Biology, Mesenchymal Stem Cell Differentiation

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