

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

Mouse Monoclonal Antibody [Clone 8C11]

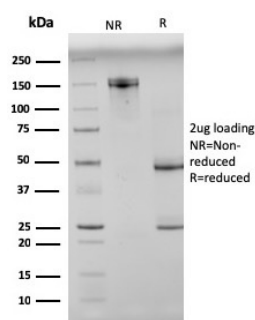
Catalog No	Format	Size
1000-MSM2-P1	Purified Ab with BSA and Azide	200ug/ml
1000-MSM2-P0	Purified Ab with BSA and Azide	200ug/ml
1000-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

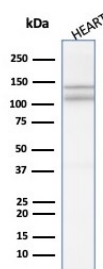
Product Details	
Clone	8C11
Gene Name	CDH2
Immunogen	Recombinant human N-cadherin extracellular domain
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	130-140kDa
Cellular Localization	Cell junction, Cell membrane, Cell surface, Sarcolemma
Species Reactivity	Human, Mouse
Positive Control	HeLa or HUVEC cells. Human heart, pancreas or cerebral cortex (IHC).

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

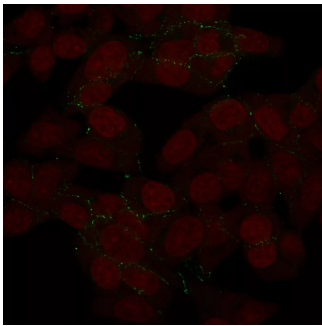
Product Images for N-Cadherin / Cadherin-2 / CD325 (NCAD) Antibody



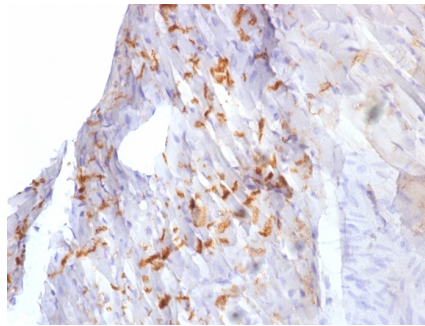
SDS-PAGE Analysis Purified N-Cadherin Mouse Monoclonal Antibody (8C11). Confirmation of Integrity and Purity of Antibody.



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



Immunofluorescent staining of HeLa cells using N-Cadherin Mouse Monoclonal Antibody (8C11) followed by goat anti-mouse IgG-CF488 (green). Nuclear stain is RedDot (red).



Formalin-fixed, paraffin-embedded mouse heart stained with N-Cadherin Mouse Monoclonal Antibody (8C11).

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.

Research Areas

Cardiovascular, Developmental Biology, Mesenchymal Stem Cell Differentiation

Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells) | Immunofluorescence (1-2ug/ml) | Western Blotting (1-2ug/ml) | Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM 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.

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.

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.

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.