

### 36-2004: Anti-N-Cadherin / Cadherin-2 / CD325 (NCAD) Monoclonal Antibody (Clone: 8C11)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	8C11
<b>Application :</b>	FACS,IF,WB,IHC
<b>Reactivity :</b>	Human, Mouse
<b>Gene :</b>	CDH2
<b>Gene ID :</b>	1000
<b>Uniprot ID :</b>	P19022
<b>Alternative Name :</b>	Cadherin-2 N cadherin neuronal; Cadherin-2 type 1; Cadherin-2; Calcium dependent adhesion protein neuronal; CD325; CDH2; CDHN; CDw325; N-Cadherin; NCAD
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant human N-cadherin extracellular domain

#### Description

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.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200µg/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.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.

#### Application Note

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),

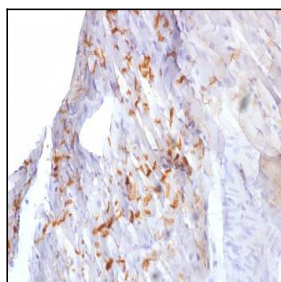


Fig. 1: Formalin-fixed, paraffin-embedded Mouse Heart stained with N-Cadherin Mouse Monoclonal Antibody (8C11).

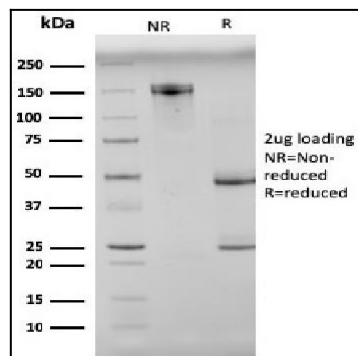


Fig. 2: SDS-PAGE Analysis Purified N-Cadherin Mouse Monoclonal Antibody (8C11).  
Confirmation of Integrity and Purity of Antibody.