

For Research Use Only

# CoraLite® Plus 647-conjugated N-cadherin Monoclonal antibody



Catalog Number: CL647-66219

Featured Product

## Basic Information

<b>Catalog Number:</b> CL647-66219	<b>GenBank Accession Number:</b> BC036470	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1000	<b>CloneNo.:</b> 1D8B3
<b>Source:</b> Mouse	<b>Full Name:</b> cadherin 2, type 1, N-cadherin (neuronal)	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 906 aa, 100 kDa	<b>Excitation/Emission maximum wavelengths:</b> 654 nm / 674 nm
<b>Immunogen Catalog Number:</b> AG4996	<b>Observed MW:</b> 130 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : mouse heart tissue,
<b>Species Specificity:</b> human, pig, mouse, rat, rabbit	

## Background Information

Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. N-cadherin (neural cadherin), also known as CDH2 (cadherin 2), is a 130-kDa transmembrane protein and a classical member of the cadherin superfamily which also include E-, P-, R-, and B-cadherins. Expression of N-cadherin has been reported on various cell types including neurons, endothelial cells and cardiac myocytes (PMID: 11282032; 9508779; 8125202). N-cadherin has functions in early brain morphogenesis, synaptogenesis and synaptic plasticity (PMID: 23321619). The N-cadherin ectodomain can be cleaved, leading to the generation of a 90 kD N-terminal fragment (PMID: 16998833; 17028923).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

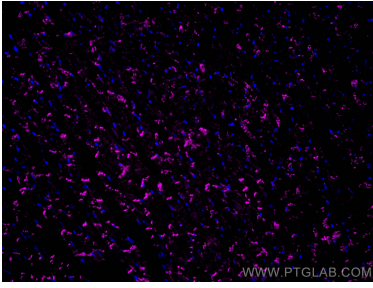
\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Coralite® Plus 647 N-cadherin antibody (CL647-66219, Clone: 1D8B3 ) at dilution of 1:200.