

For Research Use Only

# N-cadherin Polyclonal antibody

Catalog Number: 13769-1-AP

54 Publications



## Basic Information

<b>Catalog Number:</b> 13769-1-AP	<b>GenBank Accession Number:</b> BC036470	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 320 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1000	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P19022	
<b>Isotype:</b> IgG	<b>Full Name:</b> cadherin 2, type 1, N-cadherin (neuronal)	
<b>Immunogen Catalog Number:</b> AG4752	<b>Calculated MW:</b> 906 aa, 100 kDa	
	<b>Observed MW:</b> 90 kDa, 140 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, C6 cells IHC : human heart tissue,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Heling Dong	26360620	Endocrinology	WB, IHC, IF
Jifeng Ye	31583050	Oxid Med Cell Longev	WB
Mustafa Hoca	31595775	Nutr Cancer	IHC

## Storage

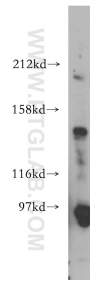
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

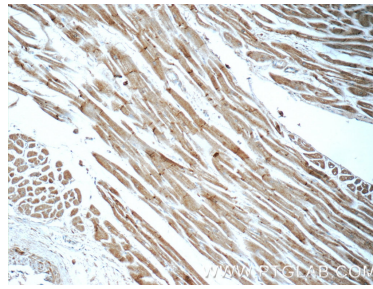
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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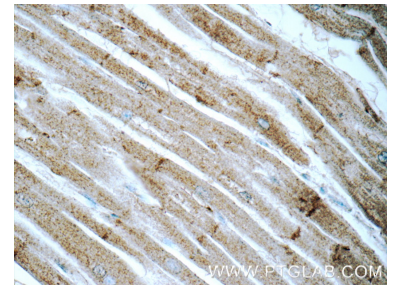
## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 13769-1-AP (N-cadherin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 13769-1-AP (N-cadherin Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 13769-1-AP (N-cadherin Antibody) at dilution of 1:50 (under 40x lens).