

# N-cadherin Recombinant antibody

Catalog Number: 82968-1-RR

## Basic Information

## Catalog Number:

82968-1-RR

## Size:

1000 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## GenBank Accession Number:

NM\_001792.4

## GeneID (NCBI):

1000

## UNIPROT ID:

P19022-1

## Full Name:

cadherin 2, type 1, N-cadherin (neuronal)

## Calculated MW:

100 kDa

## Observed MW:

130 kDa

## Purification Method:

Protein A purification

## CloneNo.:

230259H5

## Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

IF/ICC 1:125-1:500

## Applications

## Tested Applications:

WB, IHC, IF/ICC, ELISA

## Species Specificity:

human

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

## Positive Controls:

WB : HeLa cells, HEK-293 cells

IHC : human intrahepatic cholangiocarcinoma tissue, human ovary cancer tissue

IF/ICC : HeLa cells,

## 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 includes 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. 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

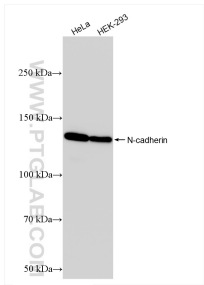
For technical support and original validation data for this product please contact:

T: 4006900926

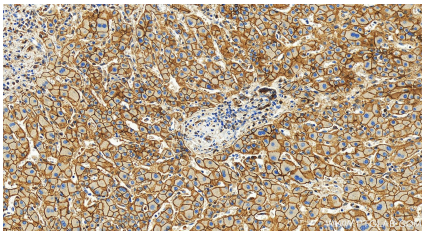
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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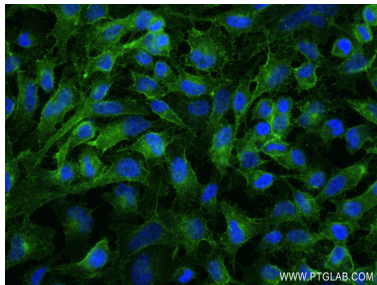
Selected Validation Data



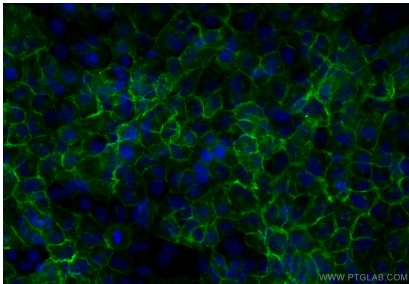
Various lysates were subjected to SDS PAGE followed by western blot with 82968-1-RR (N-cadherin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



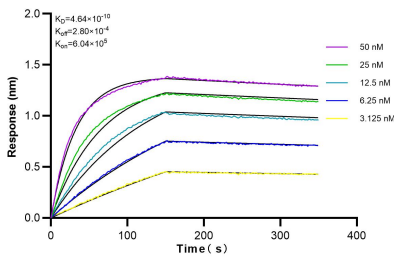
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82968-1-RR (N-cadherin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using N-cadherin antibody (82968-1-RR, Clone: 230259H5 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using N-cadherin antibody (82968-1-RR, Clone: 230259H5 ) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Biolayer interferometry (BLI) kinetic assays of 82968-1-RR against Human N-cadherin were performed. The affinity constant is 0.464 nM.