

For Research Use Only

N-cadherin Polyclonal antibody

Catalog Number: 22018-1-AP

Featured Product

979 Publications



Basic Information

Catalog Number:

22018-1-AP

Size:

150ul, Concentration: 650 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16792

GenBank Accession Number:

BC036470

GeneID (NCBI):

1000

UNIPROT ID:

P19022

Full Name:

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

Calculated MW:

906 aa, 100 kDa

Observed MW:

130 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:2000-1:8000

IF 1:50-1:500

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

Cell treatment, ColP, FC, IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, horse, rat, mouse, hamster, canine, gecko, bovine

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: mouse brain tissue, rat brain tissue, HEK-293 cells, C2C12 cells, C6 cells, rat heart tissue, HeLa cells, PC-3 cells

IP: mouse brain tissue,

IHC: mouse heart tissue, mouse brain tissue

IF: mouse heart tissue, C2C12 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 glycoprotein 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Ji Xing	36230734	Cancers (Basel)	WB
Federico Armando	34638929	Int J Mol Sci	IHC
Jie Lian	33123271	J Cancer	WB

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

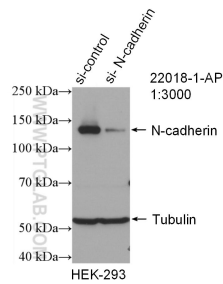
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

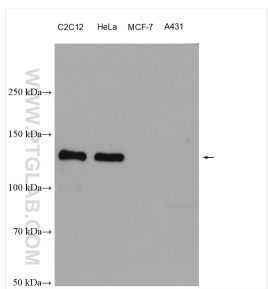
E: proteintech@ptglab.com
W: ptglab.com

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

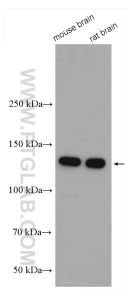
Selected Validation Data



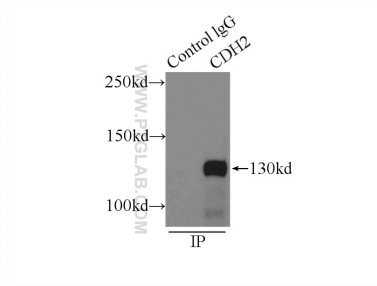
WB result of N-cadherin antibody (22018-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-N-cadherin transfected HEK-293 cells.



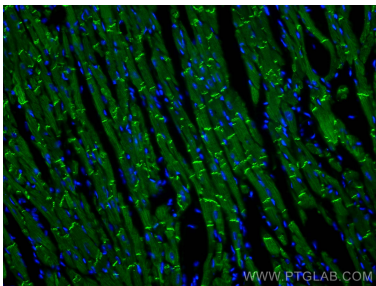
C2C12 (N-cadherin+), HeLa (N-cadherin+), MCF-7 (N-cadherin-), A431 (N-cadherin-) cell lysates were subjected to SDS PAGE followed by western blot with 22018-1-AP (N-cadherin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



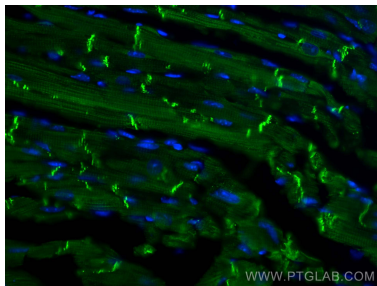
Various lysates were subjected to SDS PAGE followed by western blot with 22018-1-AP (N-cadherin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



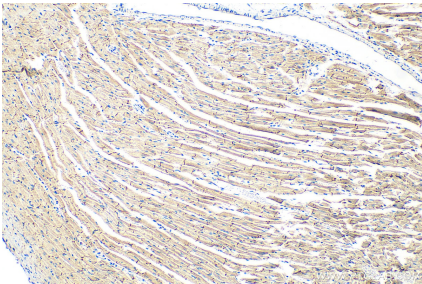
IP result of anti-N-cadherin (IP:22018-1-AP, 3ug; Detection:22018-1-AP 1:1500) with mouse brain tissue lysate 7000ug.



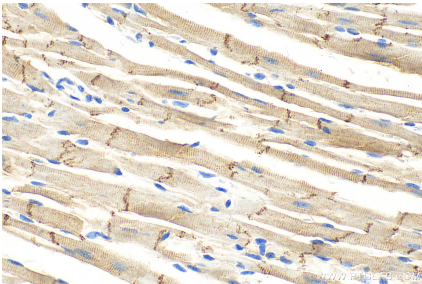
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using N-cadherin antibody (22018-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



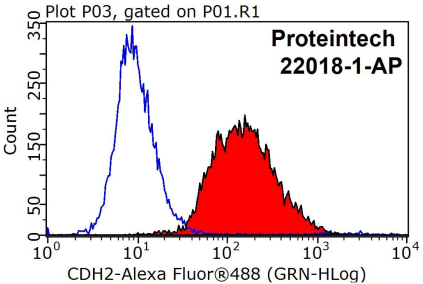
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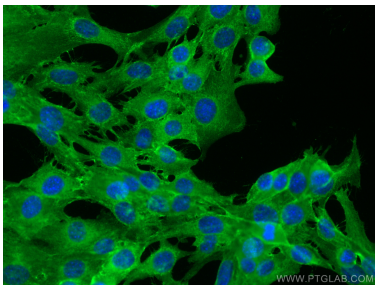
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 22018-1-AP (N-cadherin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 22018-1-AP (N-cadherin antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ 5H-SY5Y cells were stained with 0.2ug N-cadherin antibody (22018-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunofluorescent analysis of (-20°C Methanol)
fixed C2C12 cells using N-cadherin antibody
(22018-1-AP) at dilution of 1:400 and
CoraLite®488-Conjugated AffiniPure Goat Anti-
Rabbit IgG(H+L) (SA00013-2).