For Research Use Only

N-cadherin Monoclonal antibody

Catalog Number:68532-2-Ig

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Basic Information

Catalog Number:
68532-2-Ig

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

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 G purification

CloneNo.:
2D9G1

Recommended Dilutions:
WB 1:5000-1:50000
IF/ICC 1:250-1:1000

Applications

Tested Applications:
WB, IF/ICC, FC, ELISA

Species Specificity:
human, mouse, rat, pig, rabbit

Positive Controls:

WB : pig heart tissue, rabbit heart tissue, rat heart tissue, mouse heart tissue

IF/ICC : HepG2 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 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).

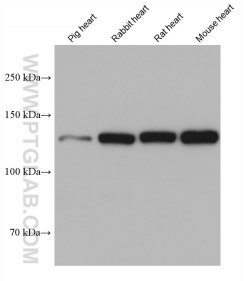
Storage

Storage:
Store at -20°C. 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

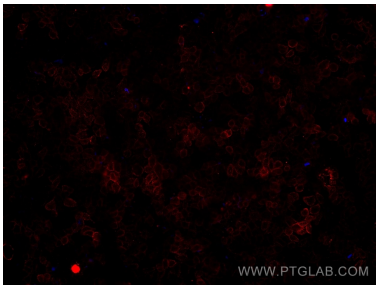
***** 20ul sizes contain 0.1% BSA**

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

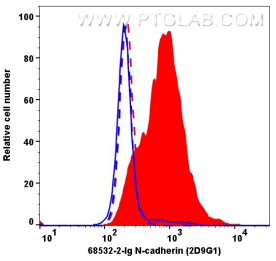
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68532-2-Ig (N-cadherin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of un-fixed HepG2 cells using N-cadherin antibody (68532-2-Ig, Clone: 2D9G1) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



1x10^6 MCF-7 (red, dashed) and SH-SY5Y (red, filled) were surface stained with 0.2 µg N-cadherin Monoclonal antibody (68532-2-Ig, Clone: 2D9G1) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were not fixed.