

For Research Use Only

N-cadherin Monoclonal antibody

Catalog Number: 68532-2-Ig



Basic Information

Catalog Number:

68532-2-Ig

Size:

1000 µg/ml

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:

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

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

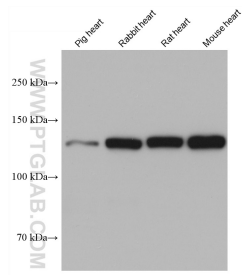
T: 4006900926

E: Proteintech-CN@ptglab.com

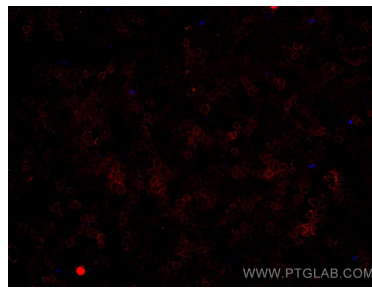
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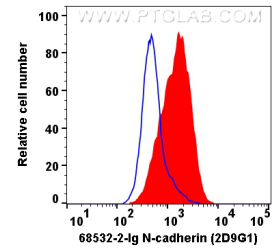
Selected Validation Data



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).



1x10⁶ HepG2 cells were surface stained with 0.2 μ g N-Cadherin Monoclonal Antibody (68532-2-Ig, Clone: 2D9G1, red) or 0.2 μ g Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue), and CoraLite488-conjugated Goat Anti-Mouse IgG(H+L) (Cat.NO. SA00013-1). Cells were not fixed.