

For Research Use Only

N-cadherin Monoclonal antibody

Catalog Number: 68532-2-Ig



Basic Information

Catalog Number: 68532-2-Ig	GenBank Accession Number: NM_001792.4	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1000	CloneNo.: 2D9G1
Source: Mouse	UNIPROT ID: P19022-1	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:250-1:1000
Isotype: IgG1	Full Name: cadherin 2, type 1, N-cadherin (neuronal)	
	Calculated MW: 100 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications: WB, IF/ICC, FC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat, pig, rabbit	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

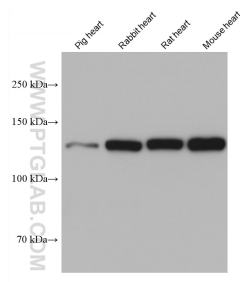
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

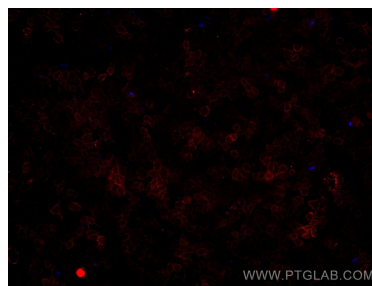
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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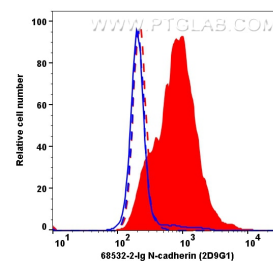
Selected Validation Data



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 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.