

Product datasheet

info@arigobio.com

ARG23870 anti-N Cadherin antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes N Cadherin

Tested Reactivity Hu, Ms, Rat, Sheep

Predict Reactivity Chimp, Chk

Tested Application ELISA, FACS, ICC/IF, IHC-P, IP, WB

Specificity The antibody detects a band at ~ 130 kDa in western blots of Human endothelial cells and Mouse brain

tissue, and does not cross-react with E Cadherin.

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name N Cadherin
Species Human

Immunogen Carrier protein coupled synthetic peptide corresponding to aa. 811-824 of Human N Cadherin.

Conjugation Un-conjugated

Alternate Names Neural cadherin; N-cadherin; CDw325; CDHN; CD antigen CD325; NCAD; Cadherin-2; CD325

Application Instructions

Application table	Application	Dilution
	ELISA	1:2000
	FACS	1:100
	ICC/IF	1:200
	IHC-P	1 μg/ml
	IP	1:100
	WB	1:1000
Application Note	WB: Antibody is suggested to be diluted in 5% skimmed milk/Tris buffer with 0.04% Tween20 and incubated for 1 hour at room temperature. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 130 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.

Buffer PBS, 0.05% Sodium azide, 50% Glycerol and 1 mg/ml BSA.

Preservative 0.05% Sodium azide.

Stabilizer 50% Glycerol and 1 mg/ml BSA

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CDH2

Gene Full Name cadherin 2, type 1, N-cadherin (neuronal)

Background N Cadherin is a classical cadherin and member of the cadherin superfamily. Alternative splicing results

in multiple transcript variants, at least one of which encodes a preproprotein is proteolytically processed to generate a calcium-dependent cell adhesion molecule and glycoprotein. This protein plays a role in the establishment of left-right asymmetry, development of the nervous system and the

formation of cartilage and bone. [provided by RefSeq, Nov 2015]

Function N Cadherin is a calcium-dependent cell adhesion protein; preferentially mediates homotypic cell-cell

adhesion by dimerization with a CDH2 chain from another cell. Cadherins may thus contribute to the sorting of heterogeneous cell types. Acts as a regulator of neural stem cells quiescence by mediating anchorage of neural stem cells to ependymocytes in the adult subependymal zone: upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading to modulate neural stem cell quiescence. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic

spine density. [UniProt]

Highlight Related Antibody Duos and Panels:

ARG30320 EMT Marker Antibody Panel

Related products:

N Cadherin antibodies; N Cadherin ELISA Kits; N Cadherin Duos / Panels; Anti-Rabbit IgG secondary

antibodies; Related news:

New EMT antibody panel is released

Research Area EMT Study antibody; Mesenchymal Markers antibody

Calculated Mw 100 kDa

PTM Cleaved by MMP24. Ectodomain cleavage leads to the generation of a soluble 90 kDa amino-terminal

soluble fragment and a 45 kDa membrane-bound carboxy-terminal fragment 1 (CTF1), which is further cleaved by gamma-secretase into a 35 kDa. Cleavage in neural stem cells by MMP24 affects CDH2-mediated anchorage of neural stem cells to ependymocytes in the adult subependymal zone,

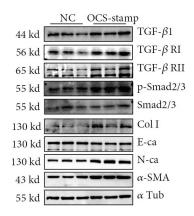
leading to modulate neural stem cell guiescence (By similarity).

May be phosphorylated by OBSCN. [UniProt]

Cell membrane; Single-pass type I membrane protein. Cell membrane, sarcolemma. Cell junction. Cell

surface. Note=Colocalizes with TMEM65 at the intercalated disk in cardiomyocytes. Colocalizes with

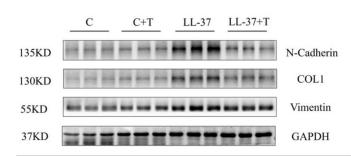
OBSCN at the intercalated disk and at sarcolemma in cardiomyocytes. [UniProt]



ARG23870 anti-N Cadherin antibody WB image

Western blot: MLE-12 stained with ARG23870 anti-N Cadherin antibody.

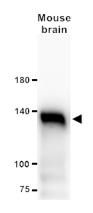
From Li T et al. Oxidative Medicine and Cellular Longevity- (2021), doi: 10.1155/2021/4158495, Fig. 2B.



ARG23870 anti-N Cadherin antibody WB image

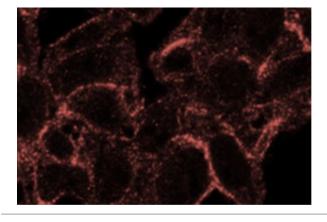
Western blot: Mouse skin stained with ARG23870 anti-N Cadherin antibody.

From Kang Y et al. Drug Design, Development and Therapy (2022), doi: 10.2147/DDDT.S393122, Fig. 8.



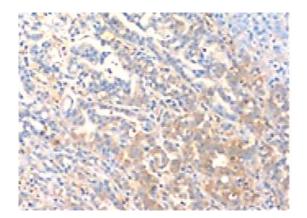
ARG23870 anti-N Cadherin antibody WB image

Western blot: 20 μg of mouse brain stained with ARG23870 anti-N Cadherin antibody at 1:1000 dilution. (Observed MW: ~130 kDa)



ARG23870 anti-N Cadherin antibody ICC/IF image

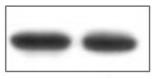
 $Immun of luorescence: MCF7-ADR\ cells\ stained\ with\ ARG23870\ anti-N\ Cadherin\ antibody.$



ARG23870 anti-N Cadherin antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded human pancreatic adenocarcinoma stained with ARG23870 anti-N Cadherin antibody.

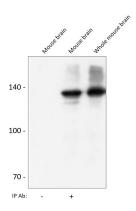
Human endothelial cells



+ Pervanadate

ARG23870 anti-N Cadherin antibody WB image

Western blot: Human endothelial cells untreated (left) or treated with Pervanadate (1 mM) for 30 min (right). The blots were stained with ARG23870 anti-N Cadherin antibody. (Observed MW: $^{\sim}$ 130 kDa)



ARG23870 anti-N Cadherin antibody IP image

Immunoprecipitation: Mouse brain lysate immunoprecipitated with no antibody (lane 1), ARG23870 anti-N Cadherin antibody (lane 2) and whole mouse brain lysate (lane 3). The blot was stained with anti-N Cadherin (Cytoplasmic) Mouse monoclonal antibody (lanes 1-3).