

Product datasheet

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ARG23871 anti-N Cadherin phospho (Tyr820) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes N Cadherin phospho (Tyr820)

Tested Reactivity Hu, Ms
Predict Reactivity Rat

Tested Application ICC/IF, WB

Specificity The antibody was cross-adsorbed to phospho-N Cadherin (Tyr860) and unphosphorylated N Cadherin

(Tyr820) peptides before affinity purification using phospho N Cadherin (Tyr820) peptide. The purified antibody detects a ~130 kDa band corresponding to N Cadherin in western blots of serum-starved

human endothelial cells treated with pervanadate, but is not detected in untreated cells.

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name N Cadherin

Species Human

Immunogen Carrier protein coupled phosphospecific peptide around Tyr820 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
	ICC/IF	1:200
	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 phospho-specific peptide and the non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.	
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]

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 quiescence (By similarity).

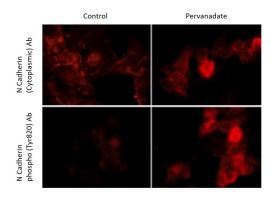
May be phosphorylated by OBSCN. [UniProt]

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]

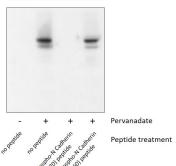
Images



ARG23871 anti-N Cadherin phospho (Tyr820) antibody ICC/IF image

Immunofluorescence: Control (untreated) or Pervanadate-treated C2C12 cells stained with anti-N Cadherin (Cytoplasmic) antibody and ARG23871 anti-N Cadherin phospho (Tyr820) antibody.

Human endothelial cells



ARG23871 anti-N Cadherin phospho (Tyr820) antibody WB image

Western blot: Human endothelial cells untreated (lane 1) or treated with Pervanadate (1 mM) for 30 min (lanes 2, 3 & 4). The blots were stained with ARG23871 anti-N Cadherin phospho (Tyr820) antibody (lane 1-4). The antibody was used in the presence of no peptide (lane 1 & 2), phospho-N Cadherin (Tyr820) peptide (lane 3), or phospho-N Cadherin (Tyr860) peptide (lane 4). (Observed MW: ~130 kDa)