

## ARG44154 anti-N Cadherin antibody [8C11] (APC)

Package: 100 tests  
Store at: 4°C

### Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [8C11] recognizes N Cadherin
Tested Reactivity	Hu, Ms
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	8C11
Isotype	IgG1, kappa
Target Name	N Cadherin
Species	Human
Immunogen	Human CD325
Conjugation	APC
Alternate Names	Neural cadherin; N-cadherin; CDw325; CDHN; CD antigen CD325; NCAD; Cadherin-2; CD325

### Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 100 µl of whole blood or 10 <sup>6</sup> cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

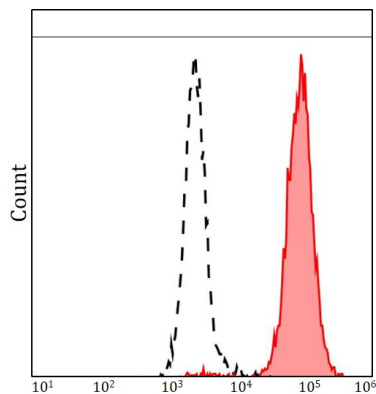
Form	Liquid
Purification	Purified
Buffer	PBS(pH 7.4) and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	CDH2
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<b>Gene Full Name</b>	cadherin 2, type 1, N-cadherin (neuronal)
<b>Background</b>	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]
<b>Function</b>	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]
<b>Research Area</b>	EMT Study antibody; Mesenchymal Markers antibody
<b>Calculated Mw</b>	~ 100 kDa (unmodified), 125-140 kDa (modified).
<b>PTM</b>	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]
<b>Cellular Localization</b>	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



ARG44154 anti-N Cadherin antibody [8C11] (APC) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG44154 anti-N Cadherin antibody [8C11] (APC) at 10  $\mu$ l / 100  $\mu$ l of whole blood dilution.