ARG44159
anti-N Cadherin antibody [8C11] (PE-Cyanine 7)

Package: 100 tests
Store at: 4°C

Summary

Product Description	PE-Cyanine 7-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	Partial recombinant protein of Human N-Cadherin (extracellular domain).
Conjugation	PE-Cyanine 7
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 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

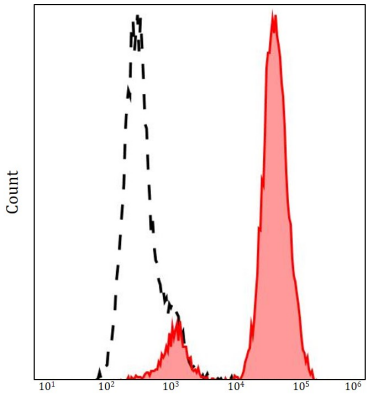
Form	Liquid
Purification	Purified
Buffer	PBS(pH 7.4) and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody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

Bioinformation

Gene Symbol	CDH2

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 (unmodified), 125-140 kDa (modified).
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]
Cellular Localization	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



ARG44159 anti-N Cadherin antibody [8C11] (PE-Cyanine 7) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG44159 anti-N Cadherin antibody [8C11] (PE-Cyanine 7) at 10 µl / 100 µl of whole blood dilution.