

ARG66961 anti-N Cadherin antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes N Cadherin
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	N Cadherin
Species	Human
Immunogen	Synthetic peptide within the extracellular domain 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
	FACS	1:50 - 1:100
	ICC/IF	1:200 - 1:500
	IHC-P	1:200 - 1:300
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 90-130 kDa	

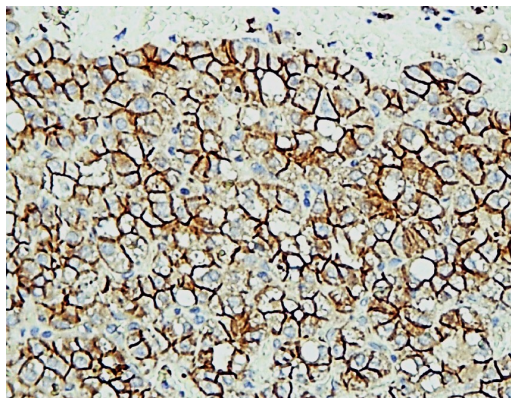
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol
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.

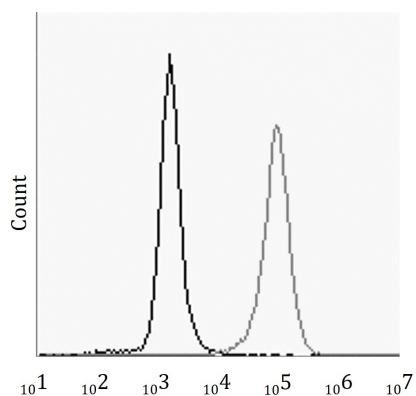
Bioinformation

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 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]



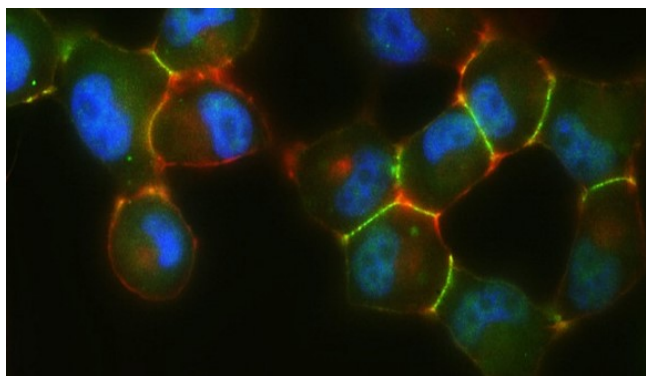
ARG66961 anti-N Cadherin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lymph node cancer tissue stained with ARG66961 anti-N Cadherin antibody at 1:100 dilution.



ARG66961 anti-N Cadherin antibody FACS image

Flow Cytometry: A549 cells stained with ARG66961 anti-N Cadherin antibody at 1:350 dilution.



ARG66961 anti-N Cadherin antibody ICC/IF image

Immunofluorescence: H1299 cells stained with ARG66961 anti-N Cadherin antibody.
