

## ARG66189 anti-N Cadherin antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes N Cadherin
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Specificity	The antibody detects endogenous N-cadherin protein.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	N Cadherin
Species	Human
Immunogen	Synthetic peptide around aa. 690-770 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
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000

**Application Note** IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

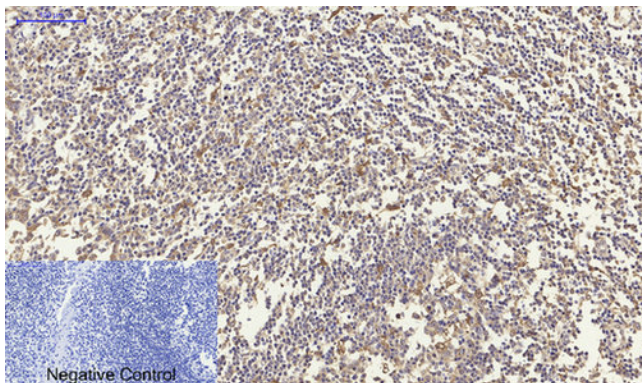
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. 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.

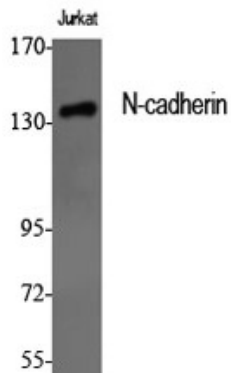
## Images



ARG66189 anti-N Cadherin antibody IHC-P image

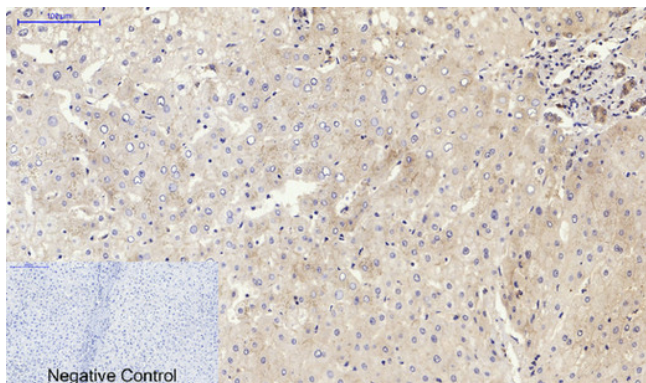
Immunohistochemistry: Paraffin-embedded Human Tonsil tissue stained with ARG66189 anti-N Cadherin antibody at 1:200 dilution (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min.

Negative control was used by secondary antibody only.



ARG66189 anti-N Cadherin antibody WB image

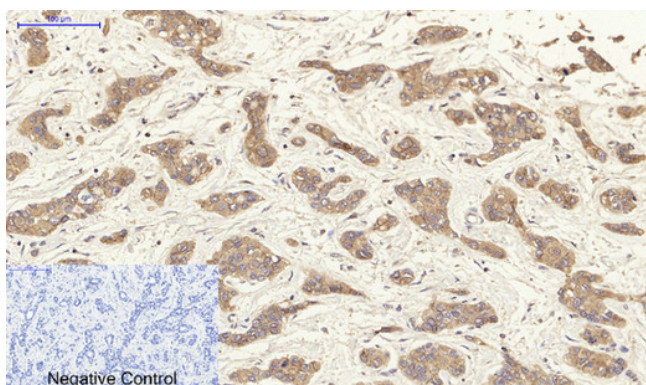
Western blot: Jurkat cell lysate stained with ARG66189 anti-N Cadherin antibody at 1:1000 dilution.



ARG66189 anti-N Cadherin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue stained with ARG66189 anti-N Cadherin antibody at 1:200 dilution (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min.

Negative control was used by secondary antibody only.



ARG66189 anti-N Cadherin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver cancer tissue stained with ARG66189 anti-N Cadherin antibody at 1:200 dilution (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min.

Negative control was used by secondary antibody only.



ARG66189 anti-N Cadherin antibody WB image

Western blot: COLO205 cell lysate stained with ARG66189 anti-N Cadherin antibody at 1:1000 dilution.