

ARG59250 anti-N Cadherin antibody [GC-4]

Package: 50 µg
Store at: -20°C

Summary

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|---------------------|--|
| Product Description | Mouse Monoclonal antibody [GC-4] recognizes N Cadherin |
| Tested Reactivity | Hu, Ms |
| Predict Reactivity | Chk, Mk, Rb |
| Tested Application | FACS, ICC/IF, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | GC-4 |
| Isotype | IgG1 |
| Target Name | N Cadherin |
| Species | Chicken |
| Immunogen | Affinity purified chicken heart A-CAM. |
| 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 | Assay dependent |
| | ICC/IF | Assay dependent |
| | WB | 0.5 - 2 µg/ml |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | 130 kDa | |

Properties

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| Form | Liquid |
| Purification | Unpurified. |
| Buffer | Mouse ascites fluid, 1.2% Sodium acetate, 0.01% Sodium azide and 2% BSA. |
| Preservative | 0.01% Sodium azide |
| Stabilizer | 2% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot |

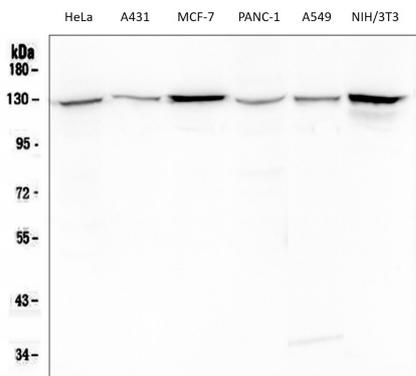
and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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|-----------------------|---|
| 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] |
| Cellular Localization | Cell membrane; Single-pass type I membrane protein. [UniProt] |

Images



ARG59250 anti-N Cadherin antibody [GC-4] WB image

Western blot: 50 µg of samples under reducing conditions. HeLa, A431, MCF-7, PANC-1, A549 and NIH/3T3 whole cell lysates stained with ARG59250 anti-N Cadherin antibody [GC-4] at 0.5 µg/ml, overnight at 4°C.