

Mouse Anti-Cadherin-N/CDH2/CD325 [5D5]: MC0580, MC0580RTU7

Intended Use: For Research Use Only

Description: Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; 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, Cadherin-N-mediated anchorage is affected, leading to modulate neural stem cell quiescence. Cadherin-N is a 140 kDa protein belonging to a family of transmembrane molecules that mediate calcium-dependent intercellular adhesion. Cadherin-N may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density. Cadherins are involved in controlling morphogenetic movements during development and regulate cell surface adhesion through homotypic adhesion with the same cadherin species. N-cadherin's function is dependent on its association with the actin-cytoskeleton and is mediated through interactions between the C-terminal region of N-cadherin and the cytoplasmic catenin proteins. The stability of this association is regulated by phosphorylation and dephosphorylation of beta-catenin.

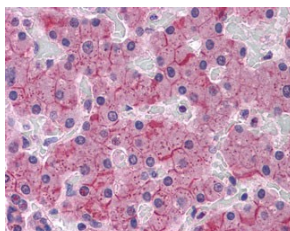
Specifications:

Clone: 5D5
Source: Mouse
Isotype: IgG1
Reactivity: Human
Localization: Membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, IF, IP, WB
Package:

Description	Catalog No.	Size
Cadherin-N/CDH2/CD325 Concentrated	MC0580	1 ml
Cadherin-N/CDH2/CD325 Prediluted	MC0580RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Colon cancer, lung cancer
Concentrated Dilution: 25-100
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human liver stained with anti-Cadherin-N using DAB

References:

1. Prognostic Prediction of Oral Squamous Cell Carcinoma by E-Cadherin and N-Cadherin Expression in Overall Cells in Tumor Nests or Tumor Cells at the Invasive Front. Ozaki-Honda Y, et al. Cancer Microenviron 10:87-94, 2017.
2. Targeted silencing of CXCR4 inhibits epithelial-mesenchymal transition in oral squamous cell carcinoma. Duan Y, et al. Oncol Lett 12:2055-2061, 2016.
3. Decreased expression of TLR7 in gastric cancer tissues and the effects of TLR7 activation on gastric cancer cells. Jiang J, et al. Oncol Lett 12:631-636, 2016.

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