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DATA SHEET

Rabbit Anti-Cadherin-N/CDH2/CD325 [MD126R]: RM0082, RM0082RTU7

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:	MD126R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant full-length human CDH2 protein
Localization:	Membrane
Formulation:	Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

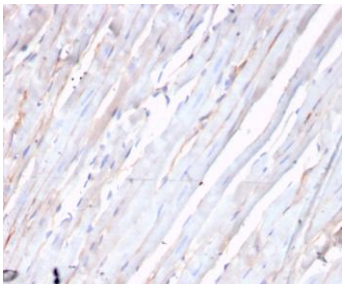
Package:

Description	Catalog No.	Size
Cadherin-N/CDH2/CD325 Concentrated	RM0082	1 ml
Cadherin-N/CDH2/CD325 Prediluted	RM0082RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Colon cancer, lung cancer
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 heart 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.

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