

N-Cadherin

Mouse Monoclonal antibody(Mab)

Catalog # AD80521

Product Information

Application	IHC-P
Primary Accession	P19022
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	114E9A1
Calculated MW	99809

Additional Information

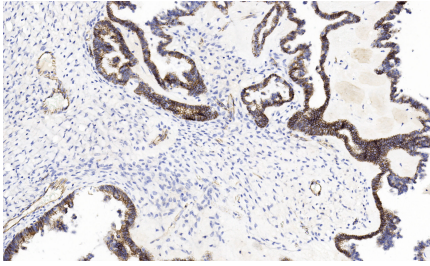
Gene ID	1000
Other Names	Cadherin-2, CDw325, Neural cadherin, N-cadherin, CD325, CDH2, CDHN, NCAD
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.

Protein Information

Name	CDH2
Synonyms	CDHN, NCAD
Function	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. Plays a role in cell-to-cell junction formation between pancreatic beta cells and neural crest stem (NCS) cells, promoting the formation of processes by NCS cells (By similarity). Required for proper neurite branching. Required for pre- and postsynaptic organization (By similarity). CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell membrane, sarcolemma {ECO:0000250 UniProtKB:P15116}. Cell junction. Cell surface {ECO:0000250 UniProtKB:P15116}. Cell junction, desmosome {ECO:0000250 UniProtKB:P15116}. Cell junction, adherens junction {ECO:0000250 UniProtKB:P15116}. Note=Colocalizes with TMEM65 at the intercalated disk in cardiomyocytes. Colocalizes with OBSCN at the

intercalated disk and at sarcolemma in cardiomyocytes
{ECO:0000250|UniProtKB:P15116}

Images



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