

CD325 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51066

Product Information

Application	WB
Primary Accession	P19022
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	99809

Additional Information

Gene ID	1000
Other Names	Cadherin-2, CDw325, Neural cadherin, N-cadherin, CD325, CDH2, CDHN, NCAD
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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}

Background

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. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density (By similarity).

References

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Salomon D.,et al.J. Cell Sci. 102:7-17(1992).
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Walsh F.S.,et al.J. Neurochem. 55:805-812(1990).

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