

ARG83165 Canine N Cadherin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

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|---------------------|---|
| Product Description | ARG83165 Canine N Cadherin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Canine N Cadherin in Serum, Plasma and Cell culture supernatants. |
| Tested Reactivity | Dog |
| Tested Application | ELISA |
| Specificity | There is no detectable cross-reactivity with other relevant proteins. |
| Target Name | N Cadherin |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 25 pg/ml |
| Detection Range | 156 pg/ml - 10,000 pg/ml |
| Sample Type | Serum, Plasma and Cell culture supernatants |
| Precision | Intra-Assay CV: 5.2% Inter-Assay CV: 5.8% |
| Alternate Names | Neural cadherin; N-cadherin; CDw325; CDHN; CD antigen CD325; NCAD; Cadherin-2; CD325 |

Application Instructions

Assay Time ~ 5 hours

Properties

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|---------------------|--|
| Form | 96 well |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| 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]

Highlight

Related products:

[Cadherin antibodies](#); [Cadherin ELISA Kits](#); [Cadherin Duos / Panels](#);

New ELISA data calculation tool:

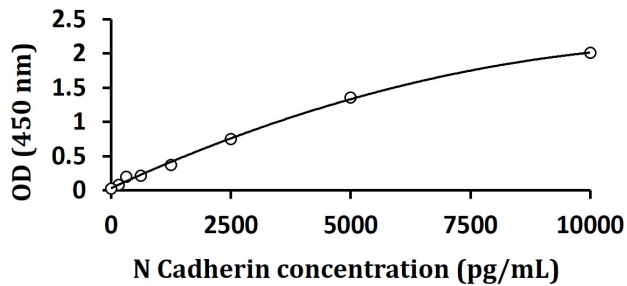
[Simplify the ELISA analysis by GainData](#)

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]

Images



ARG83165 Canine N Cadherin ELISA Kit standard curve image

ARG83165 Canine N Cadherin ELISA Kit results of a typical standard run with optical density reading at 450 nm.