

ARG81826 Rat N Cadherin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81826-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81826-002	Standard	2 X 50 ng/vial	4°C
ARG81826-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81826-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81826-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81826-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81826-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81826-008	25X Wash buffer	20 ml	4°C
ARG81826-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81826-010	STOP solution	10 ml (Ready to use)	4°C
ARG81826-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81826 Rat N Cadherin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat N Cadherin in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
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	0.39 ng/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	0.78 - 50 ng/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 4.5%; Inter-Assay CV: 5.0%
Alternate Names	Neural cadherin; N-cadherin; CDw325; CDHN; CD antigen CD325; NCAD; Cadherin-2; CD325

Application Instructions

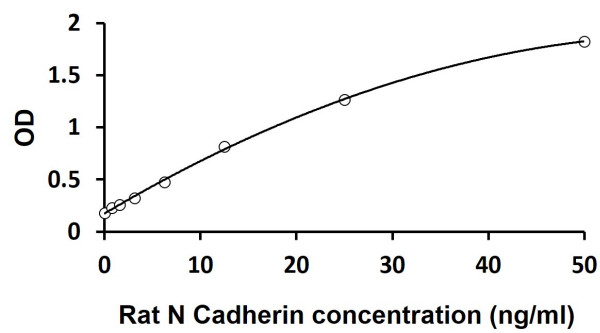
Assay Time	~ 5 hours
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Properties

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

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]



ARG81826 Rat N Cadherin ELISA Kit standard curve image

ARG81826 Rat N Cadherin ELISA Kit results of a typical standard run with optical density reading at 450 nm.