

ARG82572 Rat R Cadherin / Cadherin 4 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82572-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82572-002	Standard	2 X 10 ng/vial	4°C
ARG82572-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82572-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82572-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82572-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82572-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82572-008	25X Wash buffer	20 ml	4°C
ARG82572-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82572-010	STOP solution	10 ml (Ready to use)	4°C
ARG82572-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82572 Rat R Cadherin / Cadherin 4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat R Cadherin / Cadherin 4 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	R Cadherin / Cadherin 4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.2% Inter-Assay CV: 7.1%

Alternate Names	R-CAD; Cadherin-4; Retinal cadherin; CAD4; RCAD; R-cadherin
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Application Instructions

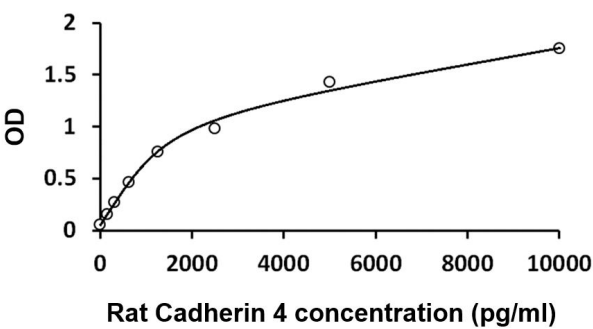
Assay Time	~ 5 hours
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Properties

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	CDH4
Gene Full Name	cadherin 4, type 1, R-cadherin (retinal)
Background	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
Function	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. May play an important role in retinal development. [UniProt]
Highlight	Related products: Cadherin antibodies ; Cadherin ELISA Kits ; Cadherin Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Cell membrane; Single-pass type I membrane protein. [UniProt]



ARG82572 Rat R Cadherin / Cadherin 4 ELISA Kit standard curve image

ARG82572 Rat R Cadherin / Cadherin 4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.