

ARG82115 Rat VE Cadherin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82115-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82115-002	Standard	2 X 20 ng/vial	4°C
ARG82115-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82115-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82115-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82115-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82115-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82115-008	25X Wash buffer	20 ml	4°C
ARG82115-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82115-010	STOP solution	10 ml (Ready to use)	4°C
ARG82115-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82115 Rat VE Cadherin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat VE 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	VE Cadherin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.9%; Inter-Assay CV: 6.2%
Alternate Names	7B4 antigen; 7B4; Cadherin-5; VE-cadherin; CD144; CD antigen CD144; Vascular endothelial cadherin

Application Instructions

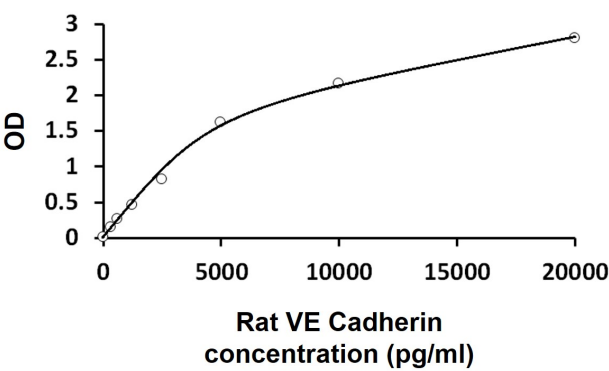
Assay Time	~ 5 hours
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Properties

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	CDH5
Gene Full Name	cadherin 5, type 2 (vascular endothelium)
Background	This gene is a classical cadherin from the cadherin superfamily and is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. 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. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]
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. This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It associates with alpha-catenin forming a link to the cytoskeleton. Acts in concert with KRIT1 to establish and maintain correct endothelial cell polarity and vascular lumen. These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B. Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction. [UniProt]
Highlight	Related products: Cadherin antibodies ; Cadherin ELISA Kits ; Cadherin Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB (By similarity). O-glycosylated. [UniProt]
Cellular Localization	Cell junction. Cell membrane; Single-pass type I membrane protein. Note=Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions. [UniProt]



ARG82115 Rat VE Cadherin ELISA Kit standard curve image

ARG82115 Rat VE Cadherin ELISA Kit results of a typical standard run with optical density reading at 450 nm.