

Datasheet for ABIN2859329 Cadherin 5 ELISA Kit

Image



#### Overview

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Quantity:	96 tests
Target:	Cadherin 5 (CDH5)
Binding Specificity:	AA 48-599
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20.000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

# Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human VE-Cadherin/CD144
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: D48-Q599
Specificity:	NSO, D48-Q599
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

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## Product Details

Material not included:Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipettetips. Multichannel pipettes are recommended in the condition of large amount of samples in the<br/>detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation<br/>of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

#### Target Details

Target:	Cadherin 5 (CDH5)
Alternative Name:	CDH5 (CDH5 Products)
Background:	Protein 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
	Background: Cadherin 5, type 2 or VE-cadherin also known as CD144, is encoded by the gene
	CDH5. It is a classical cadherin from the cadherin superfamily. This gene is mapped to mouse
	chromosome 8. 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. It has
	found that PECAM1, VE-cadherin and VEGFR2 together are sufficient to confer responsiveness
	to flow in heterologous cells.
	Synonyms: Cadherin-5,7B4 antigen,Vascular endothelial cadherin,VE-cadherin,CD144,CDH5,
	Full Gene Name: Cadherin-5
	Cellular Localisation: Cell junction . Cell membrane, Single-pass type I membrane protein .
	Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5
	reciprocally regulate their localization to endothelial cell-cell junctions.
Gene ID:	1003
UniProt:	P33151
Pathways:	Cell-Cell Junction Organization, Signaling Events mediated by VEGFR1 and VEGFR2

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Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Endothelial tissues and brain.
Plate:	Pre-coated
Protocol:	human VE-Cadherin ELISA Kit was based on standard sandwich enzyme-linked immune- sorbent assay technology. A monoclonal antibody from mouse specific for VE-Cadherin has been precoated onto 96-well plates. Standards(NSO, D48-Q599) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for VE-Cadherin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin- Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop
	solution. The density of yellow is proportional to the human VE-Cadherin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 20,000pg/mL, 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL human VE-Cadherin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human VE-Cadherin standard solution and each sample be measured in duplicate.
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(ng/ml): 2.21, Standard deviation: 0.095, CV(%): 4.3</li> <li>Sample 2: n=16, Mean(ng/ml): 8.45, Standard deviation: 0.313, CV(%): 3.7</li> <li>Sample 3: n=16, Mean(ng/ml): 14.4, Standard deviation: 0.691, CV(%): 4.8,</li> <li>Sample 1: n=24, Mean(ng/ml): 2.13, Standard deviation: 0.124, CV(%): 5.8</li> <li>Sample 2: n=24, Mean(ng/ml): 8.79, Standard deviation: 0.466, CV(%): 5.3</li> <li>Sample 3: n=24, Mean(ng/ml): 13.7, Standard deviation: 1.04, CV(%): 7.6</li> </ul>
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

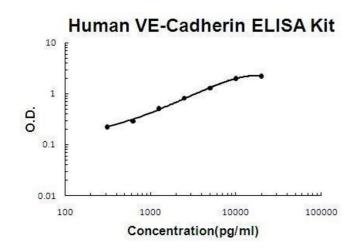
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Expiry Date:

12 months

### Images



#### ELISA

Image 1. Human VE-Cadherin/CD144 PicoKine ELISA Kit standard curve

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