

Human VE-Cadherin/CD144 PicoKine ELISA Kit | CDH5 elisa kit

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CATALOG #
AAA46192

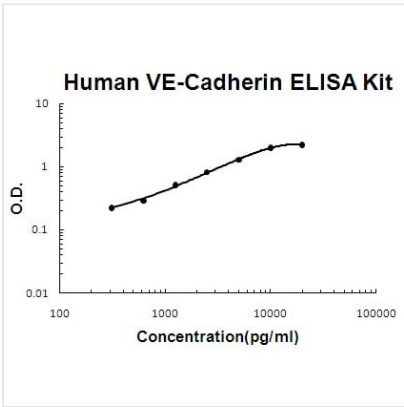
REACTIVITY
Human

PRODUCT SYNONYMS

VE-Cadherin/CD144 PicoKine; Human VE-Cadherin/CD144 PicoKine ELISA Kit; Cadherin-5; 7B 4; 7B4; 7B4 antigen; CADH5_HUMAN; Cadherin 5; Cadherin 5 type 2; type 2 (vascular endothelium); type 2; VE cadherin (vascular epithelium); cadherin; vascular endothelial; 1; Cadherin5; CD 144; CD144; CD144 antigen; CDH 5; CDH5; CDH5 protein; Endothelial specific cadherin; FLJ17376; OTTHUMP00000174777; Vascular endothelial cadherin; Vascular epithelium cadherin; VE Cad; VE-cadherin; VEC; ; cadherin 5; CDH5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human VE-Cadherin
Sequence Length	784
Assay Range	312pg/ml-20,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human VE-Cadherin in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, D48-Q599
Assay Procedure Step 1	Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human VE-Cadherin standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 2.21 8.45 14.4 2.13 8.79 13.7 Standard deviation 0.095 0.313 0.691 0.124 0.466 1.04 CV(%) 4.3 3.7 4.8 5.8 5.3 7.6
Sample Data	Concentration(pg/ml) 0 312 625 1250 2500 5000 10,000 20,000 O.D. 0.096 0.220 0.286 0.505 0.814 1.279 1.970 2.189
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human VE-Cadherin/CD144 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CDH5 elisa kit	Principle of the assay: 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. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	166362713
NCBI GeneID	1003
NCBI Accession #	NP_001786.2
NCBI GenBank Nucleotide #	NM_001795.4
UniProt Accession #	P33151; Q4VAI5; Q4VAI6
Molecular Weight	74,499 Da
NCBI Official Full Name	cadherin-5 preproprotein
NCBI Official Synonym Full Names	cadherin 5
NCBI Official Symbol	CDH5
NCBI Official Synonym Symbols	7B4; CD144
NCBI Protein Information	cadherin-5
UniProt Protein Name	Cadherin-5
UniProt Gene Name	CDH5

UniProt Synonym Gene Names	VE-cadherin
UniProt Entry Name	CADH5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/ve-cadherin-cd144-picokine/46192>