# antibodies - online.com







# **Cadherin 5 ELISA Kit**



( )	ve	K\ /		A .
	$\cup$	1 V/	Щ.	V۷

Quantity:	1 kit
Target:	Cadherin 5 (CDH5)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	312 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

#### **Product Details**

Froduct Details	
Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: 7B 4, 7B4, 7B4 antigen, CADH5_HUMAN, Cadherin 5, Cadherin 5 type 2, Cadherin 5, type 2 (vascular endothelium), Cadherin 5, type 2, VE cadherin (vascular epithelium), cadherin vascular endothelial, cadherin vascular endothelial 1, Cadherin-5, Cadherin-5, 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
	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.

Gene Name: CDH5

Production: Natural and recombinant mouse VE-Cad. There is no detectable cross-reactivity

with other relevant proteins.herin

Standard: Expression system for standard: NSO, Immunogen sequence: D46-Q599

### **Target Details**

Target:	Cadherin 5 (CDH5)	
Alternative Name:	VE-Cadherin - CD144 (CDH5 Products)	
Gene ID:	12562	
NCBI Accession:	NP_033998	
UniProt:	P55284	
Pathways:	Cell-Cell Junction Organization, Signaling Events mediated by VEGFR1 and VEGFR2	

#### **Application Details**

#### **Application Notes:**

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 20,000pg/mL, 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse VE-Cadherin standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 312pg/mL-20,000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

# **Application Details**

Restrictions:	For Research Use only
Handling	
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.