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E-cadherin ELISA Kit



Image



Overview

Quantity:	96 tests
Target:	E-cadherin (CDH1)
Binding Specificity:	AA 24-704
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat E-Cadherin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Immunogen sequence: Q24-S704
Specificity:	Expression system for standard: NSO
	Immunogen sequence: Q24-S704
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<15pg/mL

Product Details

Material not included:

Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

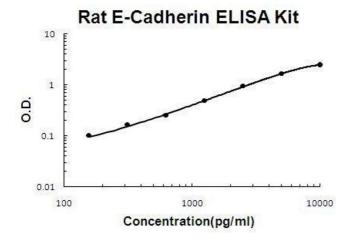
Target Details

Target:	E-cadherin (CDH1)
Alternative Name:	CDH1 (CDH1 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. CDH1 is involved in mechanisms
	regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive
	suppressor role. It is a ligand for integrin alpha-E/beta-7 (By similarity)
	Background: Cadherin-1, also known as CAM 120/80 or epithelial cadherin (E-cadherin) or
	uvomorulin, is a protein that in humans is encoded by the CDH1 gene. E-cadherin is a Ca(2+)-
	dependent epithelial cell-cell adhesion molecule. Downregulation of E-cadherin expression
	often correlates with strong invasive potential and poor prognosis of human carcinomas. The
	gene spans a region of approximately 100 kb, and its location on chromosome 16q22.1. It
	contains 16 exons and a 65-kb-long intron 2. E-cadherin gene mutations may contribute to the
	development of diffusely growing gastric carcinomas. It plays a central part in the process of
	epithelial morphogenesis and acts as a strong invasion suppressor in experimental tumor cell
	systems. The standard product used in this kit is recombinant gene expression with the
	molecular mass of 120KDa.
	Synonyms: Cadherin-1,Epithelial cadherin,E-cadherin,Uvomorulin,CD324,E-Cad/CTF1,E-
	Cad/CTF2,E-Cad/CTF3,Cdh1,
	Full Gene Name: Cadherin-1
	Cellular Localisation: Cell junction. Cell membrane, Single-pass type I membrane protein.
	Endosome . Golgi apparatus, trans-Golgi network . Colocalizes with DLGAP5 at sites of cell-cell
	contact in intestinal epithelial cells. Anchored to actin microfilaments through association with
	alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influ
	results in translocation from sites of cell-cell contact to the cytoplasm. Colocalizes with
	RAB11A endosomes during its transport from the Golgi apparatus to the plasma membrane
	(By similarity)
Gene ID:	83502

Target Details UniProt: Q9R0T4 WNT Signaling, Sensory Perception of Sound, Cell-Cell Junction Organization, Tube Formation Pathways: **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. Pre-coated Plate: Protocol: rat E-Cadherin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for E-Cadherin has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: Q24-S704) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for E-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 rat E-Cadherin amount of sample captured in plate. Assay Procedure: Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL rat E-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 rat cell culture supernates, serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each rat E-Cadherin standard solution and each sample be measured in duplicate. Restrictions: For Research Use only

Handling

Buffer:	heparin
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Rat E-Cadherin PicoKine ELISA Kit standard curve