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Datasheet for ABIN6720113

CD31 ELISA Kit

Overview

Quantity:	1 kit
Target:	CD31 (PECAM1)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product 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: CD31, CD31 antigen, EndoCAM, GPIIA, HEC7, Leukocyte surface protein, PECA1, PECA1_HUMAN, PECAM 1, PECAM-1, Pecam1, Platelet endothelial cell adhesion molecule, Platelet/endothelial cell adhesion molecule

Background: Human platelet/endothelial cell adhesion molecule-1(PECAM1), an important member of the immunoglobulin gene superfamily, is widely distributed on cells of the vascular system and mediates cellular interactions through both homophilic and heterophilic adhesive mechanisms. The function of PECAM1 in vitro has begun to be understood, but its function in vivo is yet to be established.¹ The PECAM1 locus is on the long arm of chromosome 17, in the

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region q23-qter. To confirm this observation and obtain a more precise localization of the PECAM1 locus, fluorescence in situ hybridization was conducted. Together our data allowed assignment of the PECAM1 locus to the region 17q23.2 To examine the functional role of PECAM-1 in regulating platelet-collagen interactions, 2 different approaches were applied using recombinant human PECAM-1-immunoglobulin chimeras and platelets derived from PECAM-1-deficient mice.³ PECAM-1, an integral membrane protein with an essential role in TEM, is found in this compartment and constitutively recycles evenly along endothelial cell borders.⁴ The standard used in this kit is the product of gene recombinant expression(extracellular part), consisting of 574 amino acids(Q28-K601) with the molecular weight of 64.5KDa. After glycosylating, its molecular weight changes to 90-100KDa.

Gene Name: PECAM1

Production: Natural and recombinant human PECAM-1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: CHO, Immunogen sequence: Q28-K601

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	PECAM-1 - CD31 (PECAM1 Products)
Gene ID:	5175
NCBI Accession:	NP_000433
UniProt:	P16284
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human PECAM-1 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. It is recommended that each human PECAM-1 standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 156pg/mL-10000pg/mL</p>
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Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
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.