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Datasheet for ABIN6720135

CD31 ELISA Kit

Overview

Quantity:	1 kit
Target:	CD31 (PECAM1)
Reactivity:	Mouse
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:	<p>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</p> <p>Background: PECAM-1 is an important target GP in DITP.1 Platelet/endothelial cell adhesion molecule-1(PECAM-1) is a 130-kD member of the Ig gene superfamily that is expressed on the surface of circulating platelets, monocytes, neutrophils, and selective T-cell subsets.2 Platelet endothelial cell adhesion molecule-1(PECAM-1/CD31) is a member of the immunoglobulin(Ig) superfamily that has distinctive features of an immunoreceptor based upon its genomic</p>
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Product Details

structure and the presence of intrinsic immunoreceptor tyrosine inhibitory motifs(ITIMs) in its ligand binding polypeptide.³ PECAM-1 has recently been shown to contain functional immunoreceptor tyrosine-based inhibitory motifs(ITIMs) within its cytoplasmic domain, and co-ligation of PECAM-1 with the T-cell antigen receptor(TCR) results in tyrosine phosphorylation of PECAM-1, recruitment of Src homology 2 domain-containing protein tyrosine phosphatase-2(SHP-2), and attenuation of TCR-mediated cellular signaling.⁴ The standard used in this kit is the product of gene recombinant expression(extracellular part), consisting of 563 amino acids(E28-K590) with the molecular weight of 65.5KDa. After glycosylating, its molecular weight changes to 91-100KDa.

Gene Name: PECAM1

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

Standard: Expression system for standard: NSO, Immunogen sequence: E18-K590

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	PECAM-1 - CD31 (PECAM1 Products)
Gene ID:	18613
NCBI Accession:	NP_001027550
UniProt:	Q08481
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 mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse 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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Sample Volume:	100 µL
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Application Details

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.