

## Datasheet for ABIN6720135

### CD31 ELISA Kit

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#### 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:	Mouse PECAM-1 - CD31 Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse PECAM-1. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none"><li>• Antibody-coated 96-well plate</li><li>• Target Protein Standard</li><li>• Detection antibody</li></ul>

## Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

## Target Details

Target:	CD31 (PECAM1)
Alternative Name:	PECAM-1/CD31 ( <a href="#">PECAM1 Products</a> )
Background:	<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 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.</p>
Gene ID:	18613
NCBI Accession:	<a href="#">NP_001027550</a>
UniProt:	<a href="#">Q08481</a>
Pathways:	<a href="#">Regulation of Actin Filament Polymerization</a>

## Application Details

Application Notes:	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.
Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: E18-K590
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

## Handling

Storage:	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.
Expiry Date:	12 months