

Datasheet for KOA0528**Mouse PECAM-1 - CD31 ELISA Kit****Overview**

Description:	Mouse PECAM-1/CD31 AccuSignal ELISA Kit - KOA0528
Item No.:	KOA0528
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	156 pg/ml - 10000 pg/ml

Product Details

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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	PECAM1
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: E18-K590
Purity/Specificity:	Natural and recombinant mouse PECAM-1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q08481 • NCBI - NP_001027550.1 • GeneID - 18613 • KOA0528 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

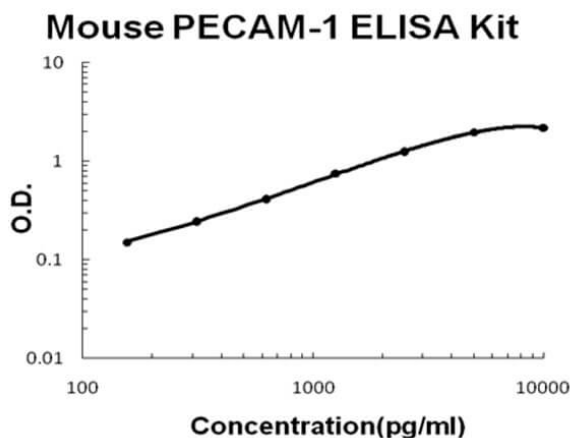
Formulation

Anticoagulant:	Heparin Sodium
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Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images



ELISA

Mouse PECAM-1/CD31 AccuSignal ELISA Kit standard curve.
 Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.