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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for KOA0328

Mouse VCAM-1 ELISA Kit

Overview

Description:	Mouse VCAM-1 AccuSignal ELISA Kit - KOA0328
Item No.:	KOA0328
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Vascular cell adhesion molecule 1(VCAM-1) is a cell surface glycoprotein adhesive for certain blood leukocytes and tumor cells, which is expressed by activated endothelium in a variety of pathologic conditions including atherosclerosis. Increased expression of VCAM1 is associated with a variety of chronic inflammatory conditions, making its expression and function a target for therapeutic intervention. Integrin alpha4beta1(VLA-4) and VCAM-1 facilitate a critical cell-cell adhesion event required for survival of endothelial and mural cells during vascularization. The VCAM1 gene is assigned to the 1p31-32 region of chromosome 1 based on the analysis of human-mouse hybrid cell lines and in situ hybridization. The standard product used in this kit is recombinant mouse VCAM-1, a dimeric protein linking with a disulfide bond. It consists of Phe25 -Glu698 amino acid sequence of a single chain with the molecular mass of 101.9KDa. As a result of glycosylation, the molecular mass of 120KDa is revealed by SDS-PAGE.
Synonyms:	CD106, CD106 antigen, DKFZp779G2333, INCAM 100, INCAM-100, INCAM100, L1CAM, MGC99561, V CAM 1, V-CAM 1, Vascular cell adhesion molecule 1, Vascular cell adhesion protein 1, VCAM 1, VCAM-1, VCAM1, VCAM1_HUMAN
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<5 pg/ml

Target Details

Gene Name:	VCAM1
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: F25 - E698
Purity/Specificity:	Natural and recombinant mouse VCAM-1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P29533 • NCBI - NP_035823.3 • GeneID - 22329 • KOA0328 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, 313pg/ml, 156pg/ml mouse VCAM-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. We recommend that each mouse VCAM-1 standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

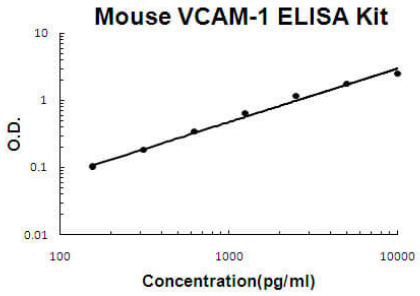
Formulation

Anticoagulant:	Heparin Sodium

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 VCAM-1 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <5pg/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.