

Datasheet for KOA0791

Mouse VE-Cadherin - CD144 ELISA Kit**Overview**

Description:	Mouse VE-Cadherin/CD144 AccuSignal ELISA Kit - KOA0791
Item No.:	KOA0791
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	312 pg/ml - 20,000 pg/ml

Product Details

Background:	Cadherin 5, type 2 or VE-cadherin also known as CD144, is encoded by the gene CDH5. It is a classical cadherin from the cadherin superfamily. This gene is mapped to mouse chromosome 8. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It has found that PECAM1, VE-cadherin and VEGFR2 together are sufficient to confer responsiveness to flow in heterologous cells.
Synonyms:	7B 4, 7B4, 7B4 antigen, CADH5_HUMAN, Cadherin 5, Cadherin 5 type 2, Cadherin 5, type 2 (vascular endothelium), Cadherin 5, type 2, VE cadherin (vascular epithelium), cadherin vascular endothelial, cadherin vascular endothelial 1, Cadherin-5, Cadherin5, CD 144, CD144, CD144 antigen, CDH 5, CDH5, CDH5 protein, Endothelial specific cadherin, FLJ17376, OTTHUMP00000174777, Vascular endothelial cadherin, Vascular epithelium cadherin, VE Cad, VE-cadherin, VEC
Detection Kit Type:	ELISA Kit
Detection Range:	312 pg/ml - 20,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CDH5
-------------------	------

Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: D46-Q599
Purity/Specificity:	Natural and recombinant mouse VE-Cadherin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	<ul style="list-style-type: none">• KOA0791 SDS• UniProtKB - P55284• NCBI - NP_033998.2• GeneID - 12562• KOA0791 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 20,000pg/ml, 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml mouse VE-Cadherin 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 VE-Cadherin 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.
Other:	DOE: 2-8° C - 11/19/2021 -20° C - 05/19/2022

Formulation

Concentration:	1 Kit
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.

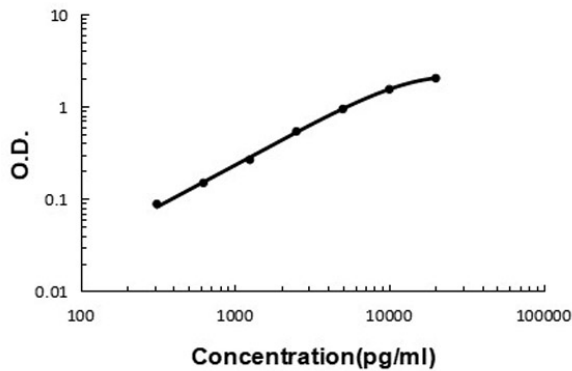
Expiration: See kit insert for complete instructions.

Images

Mouse VE-Cadherin ELISA Kit

ELISA

Mouse VE-Cadherin/CD144 ELISA Kit standard curve.



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.