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Datasheet for KOA0445

Mouse ESM1 - Endocan ELISA Kit

Overview

Description:	Mouse ESM1/Endocan AccuSignal ELISA Kit - KOA0445
Item No.:	KOA0445
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	23.4 pg/ml - 1500 pg/ml

Product Details

Background:	Endothelial cell-specific molecule 1, also known as Endocan, is a protein that in humans is encoded by the ESM1 gene. This gene encodes a secreted protein which is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of this gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. The transcript contains multiple polyadenylation and mRNA instability signals. ESM-1 has been described as a specific biomarker of tip cells during neoangiogenesis by independent teams. Its expression has been shown to be increase in presence of pro-angiogenic growth factors such as VEGF(vascular endothelial growth factor) or FGF-2(fibroblast growth factor 2).
Synonyms:	Endothelial cell-specific molecule 1, ESM-1, Esm1, ESM1_HUMAN
Detection Kit Type:	ELISA Kit
Detection Range:	23.4 pg/ml - 1500 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	ESM1
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: W20-R184
Purity/Specificity:	Natural and recombinant mouse ESM1. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:	• UniProtKB - Q9QYY7 • NCBI - NP_076101.1 • GeneID - 71690 • KOA0445 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1500pg/ml, 750pg/ml, 419pg/ml, 187.5pg/ml, 93.7pg/ml, 46.8pg/ml, 23.4pg/ml mouse ESM1 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 ESM1 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.

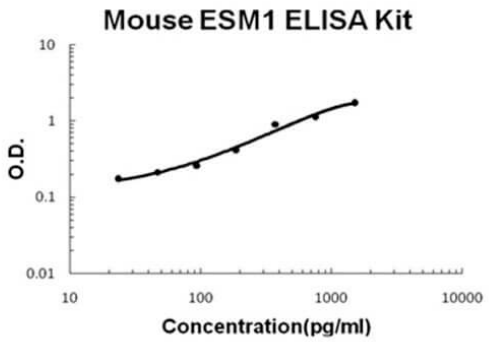
Formulation

Anticoagulant:	Heparin Sodium

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 ESM1/Endocan AccuSignal ELISA Kit standard curve.
Assay Range: 23.4pg/ml-1500pg/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.