

Datasheet for KOA0502**Human Kallistatin - Serpina4 ELISA Kit****Overview**

Description:	Human Kallistatin/Serpina4 AccuSignal ELISA Kit - KOA0502
Item No.:	KOA0502
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Serpin peptidase inhibitor, clade A(alpha-1 antiproteinase, antitrypsin), member 4, also called Kallistatin, is a protein that in humans is encoded by the SERPINA4 gene. This gene is mapped to chromosome 14q32.13. Kallistatin is a serine proteinase inhibitor(serpin) and a heparin-binding protein. It is localized in vascular smooth muscle cells and endothelial cells of blood vessels, suggesting that it may be involved in the regulation of vascular function. It shows that kallistatin plays a role in neointima hyperplasia. The potential role of kallistatin was investigated in angiogenesis in vitro and in vivo, and presented results demonstrating a novel role of the protein in the inhibition of angiogenesis and tumor growth.
Synonyms:	KAIN_HUMAN, Kallikrein inhibitor, Kallistatin, Peptidase inhibitor 4, PI-4, PI4, Serpin A4, SERPINA4
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	SERPINA4
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: Q21-P427
Purity/Specificity:	Natural and recombinant human Kallistatin. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P10721](#)
- [NCBI - NP_000213.1](#)
- [GeneID - 3815](#)
- [KOA0502 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 human Kallistatin 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 human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Kallistatin 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.

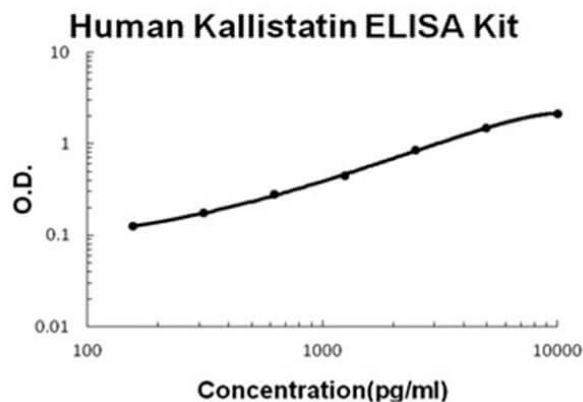
Formulation

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**

Human Kallistatin/Serpina4 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.