

Datasheet for KOA0839**Human Serpin C1 - Antithrombin-III ELISA Kit****Overview**

Description:	Human Serpin C1/Antithrombin-III AccuSignal ELISA Kit - KOA0839
Item No.:	KOA0839
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	312 pg/ml - 20,000 pg/ml

Product Details

Background:	Antithrombin III is the most important inhibitor of thrombin and other coagulation proteinases. It belongs to the serine proteinase inhibitor (serpin) superfamily of inhibitors and structurally related proteins, which contain reactive centers that have evolved to attract and entrap certain proteinases. Inherited antithrombin III deficiency (AT3D) is a risk factor for the early development of venous thromboembolism (THPH7). Antithrombin III regulates clot formation both by inhibiting thrombin activity directly and by interfering with earlier stages of the clotting cascade. By in situ hybridization and quantitative analysis of DNA dosage in carriers of chromosome 1 deletions, AT3 is mapped to 1q23-q25. The AT3 gene has 7 exons. It contains 9 complete and 1 partial repetitive ALU sequence elements, which occur in the introns of the gene at a higher frequency (about 22% of the intron sequence) than in the genome as a whole (about 5%).
Synonyms:	ANT3_HUMAN, Antithrombin, Antithrombin III, Antithrombin-III, AntithrombinIII, AT 3, AT III, AT3, AT3D, ATIII, Heparin cofactor I, MGC22579, Serine (or cysteine) proteinase inhibitor clade C (antithrombin) member 1, Serine cysteine proteinase inhibitor clade C member 1, Serine proteinase inhibitor clade C member 1, Serpin C1, Serpin peptidase inhibitor clade C (antithrombin) member 1, SERPINC1, THPH7
Detection Kit Type:	ELISA Kit
Detection Range:	312 pg/ml - 20,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	SERPINC1
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Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: H33-K464
Purity/Specificity:	Natural and recombinant human Serpin C1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P01008 • NCBI - NP_000479.1 • GeneID - 462 • KOA0839 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 human Serpin C1 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, plasma (heparin, EDTA, citrate) or urine to each empty well. We recommend that each human Serpin C1 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.

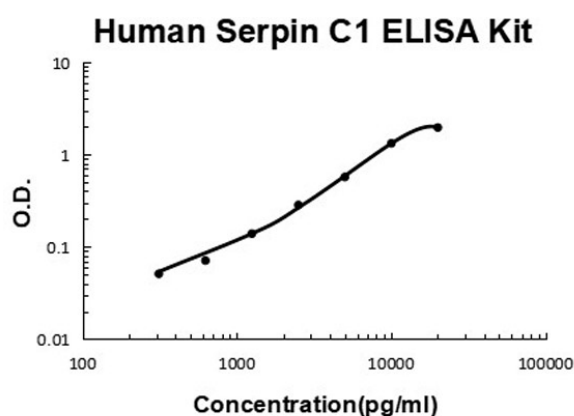
Formulation

Anticoagulant:	Heparin Sodium
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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

Human Serpin C1/Antithrombin-III 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.