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## Datasheet for ABIN6720315 **SERPINC1 ELISA Kit**

### Overview

Quantity:	1 kit
Target:	SERPINC1
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>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</p> <p>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</p>

## Product Details

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 %).

Gene Name: SERPINC1

Production: Natural and recombinant human Serpin C1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: H33-K464

## Target Details

Target: SERPINC1

Alternative Name: Serpin C1 - Antithrombin-III ([SERPINC1 Products](#))

Gene ID: 462

NCBI Accession: [NP\\_000479](#)

UniProt: [P01008](#)

## Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL 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.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 312pg/mL-20,000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

## Application Details

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Restrictions: For Research Use only

## Handling

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Storage: RT, 4 °C, -20 °C

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Storage Comment: 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.