

Human Serpin C1/Antithrombin-III PicoKine ELISA Kit | SERPINC1 elisa kit

Human Serpin C1/Antithrombin-III PicoKine ELISA Kit

CATALOG #
AAA46157

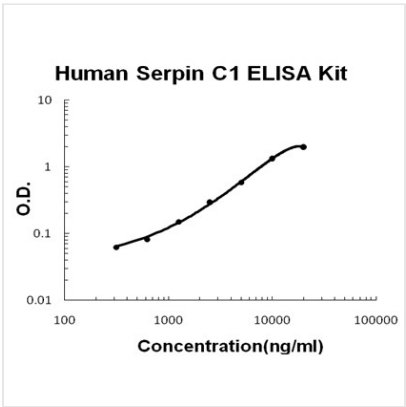
REACTIVITY
Human

PRODUCT SYNONYMS

Serpin C1/Antithrombin-III PicoKine; Human Serpin C1/Antithrombin-III PicoKine ELISA Kit; Antithrombin-III; ANT3_HUMAN; Antithrombin; 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 ; serpin peptidase inhibitor; clade C (antithrombin); member 1; SERPINC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Serpin C1
Sequence Length	464
Assay Range	312pg/ml-20,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human Serpin C1 in cell culture supernates, serum, plasma (heparin, EDTA, citrate) and urine.
Immunogen	NSO, H33-K464
Assay Procedure Step 1	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.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 1.05 3.42 8.67 1.32 3.74 8.23 Standard deviation 0.064 0.194 0.546 0.088 0.239 0.543 CV(%) 6.1 5.7 6.3 6.7 6.4 6.6
Sample Data	Concentration(pg/ml) 0 312 625 1250 2500 5000 10,000 20,000 O.D. 0.011 0.062 0.082 0.15 0.295 0.582 1.333 1.974
Anticoagulant	Heparin, EDTA or Citrate
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Serpin C1/Antithrombin-III PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for SERPINC1 elisa kit	Principle of the assay: Human Serpin C1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Serpin C1 has been precoated onto 96-well plates. Standards (NSO, H33-K464) and test samples are added to the wells; a biotinylated detection polyclonal antibody from goat specific for Serpin C1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Serpin C1 amount of sample captured in plate. 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%).
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502261
NCBI GeneID	462
NCBI Accession #	NP_000479.1
NCBI GenBank Nucleotide #	NM_000488.3
UniProt Accession #	P01008; P78439; P78447; Q13815; Q5TC78; Q7KZ43; Q7KZ97; Q9UC78; B2R6P0
Molecular Weight	52,602 Da
NCBI Official Full Name	antithrombin-III
NCBI Official Synonym Full Names	serpin family C member 1
NCBI Official Symbol	SERPINC1
NCBI Official Synonym Symbols	AT3; AT3D; ATIII; THPH7
NCBI Protein Information	antithrombin-III
UniProt Protein Name	Antithrombin-III

UniProt Gene Name	SERPINC1
UniProt Synonym Gene Names	AT3; ATIII
UniProt Entry Name	ANT3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/serpin-c1-antithrombin-iii-picokine/46157>