

Serpin A12 ELISA Kit | SERPINA12 elisa kit

Human Serpin A12 PicoKine ELISA Kit

CATALOG #
AAA125077

REACTIVITY
Human There is no detectable cross-reactivity with other relevant proteins.

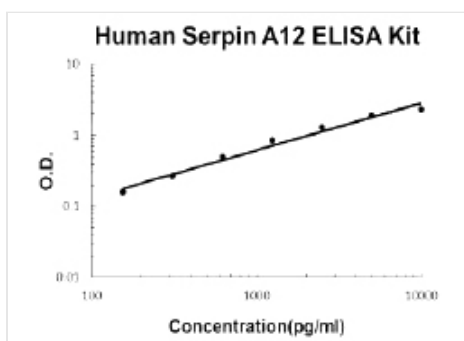
PRODUCT SYNONYMS

Serpin A12; Human Serpin A12 PicoKine ELISA Kit; Human Serpin A12; OL-64; Visceral adipose tissue-derived serine protease inhibitor; Vaspin; Visceral adipose-specific serpin; SERPINA12; Serpin family A member 12; SERPINA12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Human Serpin A1
Sequence Length	414
Samples	Cell Culture Supernates, Serum, Plasma (Heparin, Edta) And Urine
Detection Range	1.56ng/ml-100ng/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SERPINA12 elisa kit	Principle of the Assay: The Picokine Human Serpin A1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human Serpin A1 with a 96-well strip plate that is pre-coated with antibody specific for Serpin A1. The detection antibody is a biotinylated antibody specific for Serpin A1. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human Serpin A1 with immunogen: Expression system for standard: NSO,E25-K418. The kit is analytically validated with ready to use reagents. To measure Human Serpin A1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human Serpin A1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human Serpin A1 in the sample!!Background/Introduction: Alpha-1-antitrypsin or alpha1-antitrypsin (A1AT, A1A, or AAT) is a protein belonging to the serpin superfamily. It is encoded in humans by the SERPINA1 gene. The gene is located on the long arm of the fourteenth chromosome (14q32.1).The protein encoded by this gene is secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Defects in this gene can cause emphysema or liver disease. Several transcript variants encoding the same protein have been found for this gene.Like all serine protease inhibitors, A1AT has a characteristic secondary structure of beta sheets and alpha helices. Mutations in these areas can lead to non-functional proteins that can polymerise and accumulate in the liver(infantile hepatic cirrhosis).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	751130493
NCBI GeneID	145264
NCBI Accession #	NP_001291390.1
NCBI GenBank Nucleotide #	NM_001304461.1
UniProt Accession #	Q8IW75
Molecular Weight	47,175 Da
NCBI Official Full Name	serpin A12
NCBI Official Synonym Full Names	serpin family A member 12
NCBI Official Symbol	SERPINA12
NCBI Official Synonym Symbols	OL-64
NCBI Protein Information	serpin A12
UniProt Protein Name	Serpin A12
UniProt Gene Name	SERPINA12
UniProt Synonym Gene Names	Vaspin

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/serpina12-human-elisa-kits/serpin-a12/125077>