

Antithrombin III (AT3) ELISA Kit | AT3 elisa kit

Rat Antithrombin III (AT3) ELISA Kit

CATALOG #
AAA88019

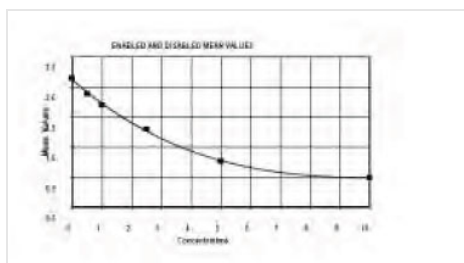
PRODUCT SYNONYMS

Antithrombin III (AT3); Rat Antithrombin III (AT3) ELISA Kit; AT3 elisa kit

PRODUCT SPECIFICATIONS

Sequence Length	464
Samples	Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AT3 elisa kit

For Samples: Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma

Intended Uses: This AT3 ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of AT3 in the sample, this AT3 ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus AT3 concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of AT3 utilizes a monoclonal anti-AT3 antibody and an AT3-HRP conjugate. The assay sample and buffer are incubated together with AT3-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AT3 concentration since AT3 from samples and AT3-HRP conjugate compete for the anti-AT3 antibody binding site. Since the number of sites is limited, as more sites are occupied by AT3 from the sample, fewer sites are left to bind AT3-HRP conjugate. Standards of known AT3 concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of AT3. The AT3 concentration in each sample is interpolated from this standard curve.

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; Q7KYQ5; Q7KYY4; Q8IZZ8; Q8IZZ9; Q8J000; Q8J001; Q8TCE1; Q9UBW9; Q9UE54
Molecular Weight	52,602 Da
NCBI Official Full Name	antithrombin-III
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade C (antithrombin), member 1
NCBI Official Symbol	SERPINC1
NCBI Official Synonym Symbols	AT3; AT3D; ATIII; THPH7
NCBI Protein Information	antithrombin-III; serpin C1; antithrombin III; serine-cysteine proteinase inhibitor clade C member 1; serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1
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://www.aaabiotech.com/elisa-kits/antithrombin-iii-at3/88019>