

Canine alpha1 Antitrypsin ELISA Kit | alpha1-AT elisa kit

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CATALOG #
AAA90299

REACTIVITY
Canine

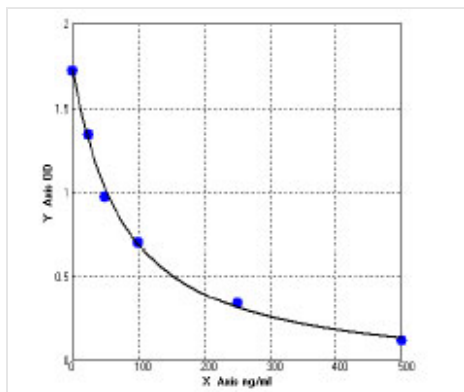
PRODUCT SYNONYMS

alpha1 Antitrypsin; Canine alpha1 Antitrypsin ELISA Kit; Canine a1 Antitrypsin ELISA Kit; alpha1-AT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of alpha1AT. No significant cross-reactivity or interference between alpha1AT and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between alpha1AT and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for alpha1-AT elisa kit	Intended Uses: This alpha1AT ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine alpha1AT. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: alpha1AT ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-alpha1AT antibody and an alpha1AT-HRP conjugate. The assay sample and buffer are incubated together with alpha1AT-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 alpha1AT concentration since alpha1AT from samples and alpha1AT-HRP conjugate compete for the anti-alpha1AT antibody binding site. Since the number of sites is limited, as more sites are occupied by alpha1AT from the sample, fewer sites are left to bind alpha1AT-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The alpha1AT concentration in each sample is interpolated from this standard curve.
Product Categories/Family for alpha1-AT elisa kit	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	2804195
Molecular Weight	45,729 Da
NCBI Official Full Name	alpha1-antitrypsin
UniProt Protein Name	Alpha-1-antiproteinase
UniProt Entry Name	A1AT_CALCIN

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.

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Online datasheet: <https://stage.aaabiotech.com/alpha1-at-canine-elisa-kits/alpha1-antitrypsin/90299>