

Human A2M/alpha2-Macroglobulin ELISA Kit | A2M elisa kit

Human A2M/alpha2-Macroglobulin PicoKine ELISA Kit

CATALOG #
AAA45897

REACTIVITY
Human

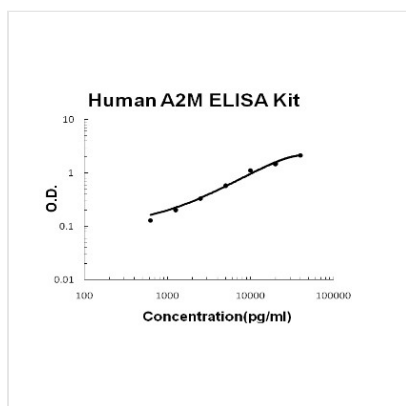
PRODUCT SYNONYMS

A2M/alpha2-Macroglobulin; Human A2M/alpha2-Macroglobulin PicoKine ELISA Kit; Alpha-2-macroglobulin; alpha-2-macroglobulin; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; A2m; A2MD; A2MG_HUMAN; Alpha-2-M; CPAMD5; FWP007; Pregnancy zone protein; S863-7; A2M elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural human A2M
Sequence Length	1474
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	625pg/ml-40,000pg/ml
Sensitivity	< 20pg/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 between 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, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human A2M/alpha2-Macroglobulin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for A2M elisa kit

Principle of the assay: human A2M ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for A2M has been precoated onto 96-well plates. Standards(from human plasma) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for A2M 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 A2M amount of sample captured in plate.

Background: Alpha-2-macroglobulin, also known as A2M or CPAMD5 is a large plasma protein found in the blood. This gene is mapped to 12p13.31. Alpha-2-macroglobulin is a protease inhibitor and cytokine transporter. It inhibits many proteases, including trypsin, thrombin and collagenase. A2M is implicated in Alzheimer disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits. This gene is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase.

NCBI AND UNIPROT INFORMATION

NCBI GI #	308153640
NCBI GeneID	2
UniProt Accession #	P01023; Q13677; Q59F47; Q5QTS0; Q68DN2; Q6PIY3; Q6PN97
Molecular Weight	163,291 Da
NCBI Official Full Name	Alpha-2-macroglobulin
NCBI Official Synonym Full Names	alpha-2-macroglobulin
NCBI Official Symbol	A2M
NCBI Official Synonym Symbols	A2MD; CPAMD5; FWP007; S863-7
NCBI Protein Information	alpha-2-macroglobulin; alpha-2-M; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5
UniProt Protein Name	Alpha-2-macroglobulin
UniProt Gene Name	A2M
UniProt Synonym Gene Names	CPAMD5; Alpha-2-M
UniProt Entry Name	A2MG_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/a2m-alpha2-macroglobulin/45897>