

Rat Alpha-2-Macroglobulin (a2M) ELISA Kit | a2M elisa kit

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CATALOG #
AAA182207

REACTIVITY
Rat

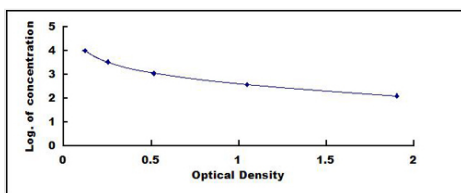
PRODUCT SYNONYMS

Alpha-2-Macroglobulin (a2M); Rat Alpha-2-Macroglobulin (a2M) ELISA Kit; A2MG; A2mg; CPAMD5; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; a2M elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Alpha-2-Macroglobulin (a2M). No significant cross-reactivity or interference between Alpha-2-Macroglobulin (a2M) and analogues was observed.
Sequence Length	1474
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and Other Biological Fluids
Detection Range	123.5-10,000ng/mL
Sensitivity	< 58.4ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Alpha-2-Macroglobulin (a2M) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Alpha-2-Macroglobulin (a2M) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for a2M elisa kit	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Alpha-2-Macroglobulin (a2M) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Alpha-2-Macroglobulin (a2M) and unlabeled Alpha-2-Macroglobulin (a2M) (Standards or samples) with the pre-coated antibody specific to Alpha-2-Macroglobulin (a2M). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Alpha-2-Macroglobulin (a2M) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Alpha-2-Macroglobulin (a2M) in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66932947
NCBI GeneID	2
NCBI Accession #	NP_000005.2
NCBI GenBank Nucleotide #	NM_000014.5
UniProt Accession #	P01023; Q13677; Q59F47; Q5QTS0; Q68DN2; Q6PIY3; Q6PN97
Molecular Weight	163,291 Da
NCBI Official Full Name	alpha-2-macroglobulin isoform a
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
UniProt Protein Name	Alpha-2-macroglobulin
UniProt Gene Name	A2M
UniProt Synonym Gene Names	CPAMD5; Alpha-2-M

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.