



Human α 2 macroglobulin, α 2 MG ELISA Kit

Product Code	CSB-E08959h
Abbreviation	A2M
Target Name	alpha-2-macroglobulin
Uniprot No.	P01023
Alias	CPAMD5, DKFZp779B086, FWP007, S863-7,alpha2 MG,,alpha2 macroglobulin, α 2 macroglobulin, α 2 MG
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.25 μ g/mL-20 μ g/mL
Sensitivity	1.25 μ g/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	A2M
Tag Info	quantitative
Protein Description	Competitive
Description	This Human A2M ELISA Kit was designed for the quantitative measurement of Human A2M protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 1.25 μ g/mL-20 μ g/mL and the sensitivity is 1.25 μ g/mL.
Target Details	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.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.



Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human $\alpha 2$ MG in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:100	Average %	87
	Range %	82-93
1:200	Average %	94
	Range %	89-99
1:400	Average %	95
	Range %	89-99
1:800	Average %	92
	Range %	87-96

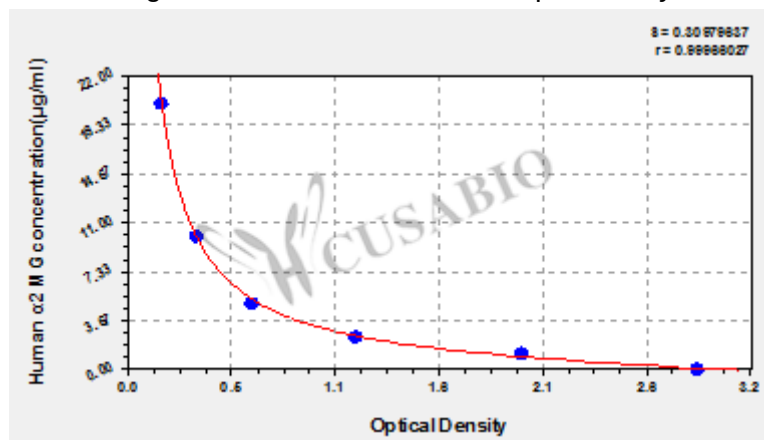
Recovery

The recovery of human $\alpha 2$ MG spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	92	85-98
EDTA plasma (n=4)	96	92-101

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



$\mu\text{g/ml}$	OD1	OD2	Average
20	0.185	0.187	0.186
10	0.360	0.365	0.363
5	0.635	0.642	0.639
2.5	1.163	1.172	1.168
1.25	1.995	2.013	2.004
0	2.849	2.924	2.887