



Rat α 2 macroglobulin, α 2 MG ELISA Kit

Product Code	CSB-E13863r
Abbreviation	A2M
Protein Biological Process 1	Immunity
Target Name	alpha-2-macroglobulin
Uniprot No.	P06238
Alias	CPAMD5, DKFZp779B086, FWP007, S863-7,alpha2 MG,,alpha2 macroglobulin, α 2 macroglobulin, α 2 MG
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Acute phase
Sample Types	serum, plasma
Detection Range	3.13 ng/mL-800 ng/mL
Sensitivity	3.125 ng/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
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 rat $\alpha 2$ 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)
1:1000	Average %	97
	Range %	88-105
1:2000	Average %	91
	Range %	89-102
1:4000	Average %	93
	Range %	90-98
1:8000	Average %	94
	Range %	87-98

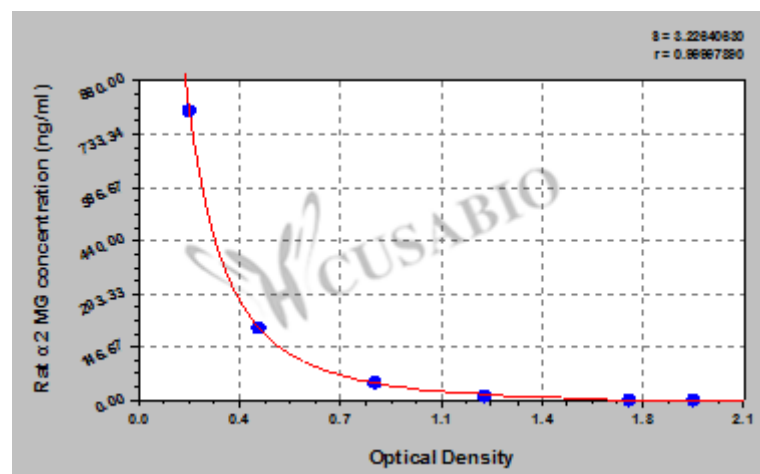
Recovery

The recovery of rat $\alpha 2$ 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)	97	92-102
EDTA plasma (n=4)	95	90-99

Typical

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



ng/ml	OD1	OD2	Average
800	0.218	0.214	0.216
200	0.451	0.461	0.456
50	0.850	0.861	0.856
12.5	1.225	1.242	1.234
3.125	1.726	1.737	1.732
0	1.944	1.967	1.956