

## **$\alpha$ 1-Microglobulin Protein ( $\alpha$ 1-MG)**

### **Anti-Human $\alpha$ 1-MG Monoclonal Antibody**

A new generation of anti- $\alpha$ 1-MG monoclonal antibodies, which was recently produced by CUSAg, makes possible the development of highly sensitive immunoassays.  $\alpha$ 1-MG monoclonal antibodies can be used for detection of  $\alpha$ 1-MG in latex enhanced immune turbidimetry.

<b>Properties</b>	<b>Specification</b>
Target species	Human
Host animal	Mice Balb/c
Cell line used for fusion	Sp2/0
Immunogen	AMBP protein
Purification method, Purity	Protein G affinity chromatography
Presentation	MAb solution in NaCl with 15 mM NaN <sub>3</sub> (pH 7.2)
Application	LETIA
Catalog Number	CSB-DA141AmN①; CSB-DA141AmN②

## Calibration Curve

CSB-DA141AmN① and CSB-DA141AmN② were precoated onto latex beads to form insoluble complexes, resulting in turbidity increasing, and then the increasing of absorbance is detected by automatic biochemical analyzer. The calibration curve was fitted according to the relationship between absorbance values and  $\alpha$ 1-MG concentrations. Our in-house assays have a detection range 0 -160 mg/L.

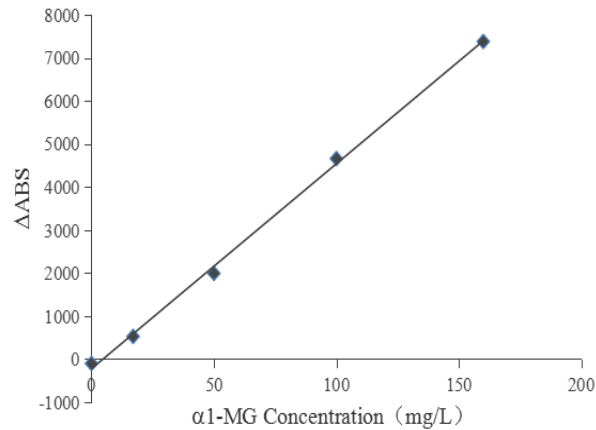


Fig.1 Calibration curve for  $\alpha$ 1-MG in latex-enhanced turbidimetric immunoassay (LETIA)

## Clinical Comparison

20 clinical blood samples were separately tested using CUSAg  $\alpha$ 1-MG antibody on the LETIA platform. Data from this study were compared to that of commercial diagnostic kit.

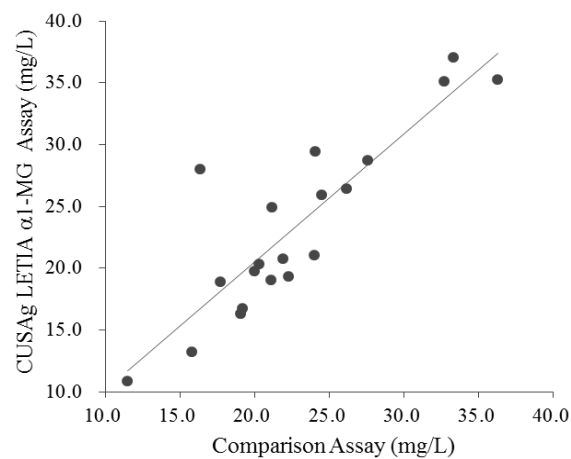


Fig.2 Clinical comparison of CUSAg  $\alpha$ 1-MG immunoassay and commercial diagnostic kit