

**AP32994SU-N****Polyclonal Antibody to Alpha-2-macroglobulin / A2M - Serum**

<b>Alternate names:</b>	Alpha 2 macroglobulin, Alpha-2-M, CPAMD5, PZP-like alpha-2-macroglobulin domain-containing
<b>Quantity:</b>	1 ml
<b>Concentration:</b>	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.
<b>Background:</b>	Alpha-2 macroglobulin (clotting factor I) is the major protein in the alpha-2 region of rat serum after separation by immunoelectrophoresis. The concentration in normal plasma is about 2.5 mg/ml. It is a large polymer and a strong antigen. It forms about one third in the total of the alpha-2 globulins.
<b>Uniprot ID:</b>	<a href="#">P06238</a>
<b>NCBI:</b>	<a href="#">NP_036620.2</a>
<b>GeneID:</b>	<a href="#">100911545</a>
<b>Host:</b>	Goat
<b>Immunogen:</b>	The protein is isolated by Ammonium Sulphate Precipitation, Ion Exchange Chromatography, gel filtration and preparative starch block electrophoresis. In the purification the activation of kallikrein is avoided, since it forms an irreversible bond with alpha-2 macroglobulin, thus contaminating the final immunogen. Freund's complete adjuvant is used in the first step of the immunization procedure.
<b>Format:</b>	<b>State:</b> Lyophilized (Delipidated, heat inactivated) stable whole Serum <b>Preservatives:</b> None, as it may interfere with the antibody activity. <b>Reconstitution:</b> Restore by adding 1.0 ml of sterile distilled water
<b>Applications:</b>	<b>Immunoprecipitation.</b> In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of Alpha-2 macroglobulin in rat plasma or other body fluids or to determine its concentration. This antiserum is not intended for use in non-precipitating antibody binding or other highly sensitive assays, but this does exclude such use if proper controls are included. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

The reactivity of the antiserum is restricted to Rat Alpha-2 macroglobulin. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against normal rat plasma a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified Alpha-2 macroglobulin. No reaction is obtained with any other plasma protein components or serum.

The antiserum does not cross-react with any other component of Rat plasma. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail, however in double radial immunodiffusion a reaction has been observed with Mouse.

**Species:** Rat.

Other species not tested.

**Storage:**

Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.