

## Product datasheet for **AP31527SU-N**

### alpha 1 Antitrypsin (SERPINA1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ID, IP
Recommended Dilution:	In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion to identify the presence of alpha-1 antitrypsin in human plasma or other body fluids or to determine its concentration. The presence of non precipitating antibodies has not been assayed. This does not exclude the use of the antiserum in more sensitive non-precipitating antibody-binding techniques if proper controls are included.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Alpha-1 antitrypsin is a serine protease inhibitor. It has a molecular weight of 54,000, its mean concentration in normal serum is 2.5 mg/ml. The highly purified immunogen is isolated from pooled normal plasma. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	<p>The reactivity of the antiserum is restricted to alpha-1 antitrypsin. In immunoelectrophoresis and radial immunodiffusion (Ouchterlony), using various antiserum concentrations against fresh normal human plasma a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified alpha-1 antitrypsin. No reaction is obtained with any other plasma protein component or serum.</p> <p><u>Cross-reactivity:</u> The antiserum does not cross react with any other component of human 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 found with Rhesus monkey, Cynomolgus, Baboon and Chimpanzee; no reaction with mouse.</p>
Formulation:	No preservative added. - No foreign proteins added. State: Serum State: Delipidated, heat inactivated, lyophilized, stable whole antiserum
Reconstitution Method:	Restore with 1 ml sterile distilled water.
Conjugation:	Unconjugated



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<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	serpin family A member 1
<b>Database Link:</b>	<a href="#">Entrez Gene 5265 Human</a> <a href="#">P01009</a>
<b>Synonyms:</b>	SERPINA1, AAT
<b>Note:</b>	<b>Adsorption:</b> Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades