Description	**Precipitating polyclonal goat antiserum to human alpha-1 lipoprotein (high-density-lipoprotein)**
Product code	GAHu/A1Lp(HDL)
Biological origin	Goat
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum
Preservative	No preservative added.
Immunogen	Alpha-1 lipoproteins are completely different from beta-lipoproteins. In fresh serum only one alpha-1 lipoprotein exists immunologically, but after centrifugation, storage, freezing and thawing two types of alpha-1 lipoprotein with difference in mobility and antigenic properties have been observed. Alpha-1 lipoprotein in fresh serum is usually precipitated by the specific antiserum as a rather symmetric arc in the albumin zone. Concentration in normal human serum is 170-320 mg/100 ml. Freund's complete adjuvant is used in the first step of the immunization procedure.
Adsorption	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.
Identity & Specificity	The reactivity of the antiserum is restricted to alpha-1 lipoprotein. 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-1lipoprotein. No reaction is obtained with any other plasma protein component or serum.
Cross-reactivity	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.
Protein concentration	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.
Antibody titre	Precipitin titre 1:16 when tested against in agar-block immunodiffusion titration against an appropriate reference.
Intended use	In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion to identify the presence of alpha-1lipoprotein 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.
Directions for use	The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.
Packing	Vial with 1 ml lyophilized antiserum.
Storage / shelf life	Lyophilized at +4°C — at least 10 years reconstituted at or below -20°C — 3-5 years reconstituted at +4°C — 7 days
Caution	This antiserum should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For *in vitro* research purposes only.

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