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|-----------------------------------|--|---------------------|-------------------|---------------------------------|-----------|-----------------------|--------|
| Description | Precipitating polyclonal goat antiserum to human transthyretin (prealbumin) | | | | | | |
| Product code | GAHu/pAlb | | | | | | |
| Biological origin | Goat | | | | | | |
| Physical form | Delipidated, heat inactivated, lyophilized, stable whole antiserum | | | | | | |
| Preservative | No preservative added. | | | | | | |
| Immunogen | <p>Transthyretin is the fastest protein in the immunoelectrophoresis pattern of human serum. It consists of four identical polypeptide chains with no carbohydrate. The molecular weight is 55,000 and the concentration in normal serum ranges from 0.1 to 0.4 mg/ml. It can bind thyroxine and retinal and its concentration is reduced in severe liver diseases.</p> <p>Freund's complete adjuvant is used in the first step of the immunization procedure.</p> | | | | | | |
| Adsorption | Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum. | | | | | | |
| Identity & Specificity | The defined antibody specificity is directed to transthyretin as tested against human sera. In immunoelectrophoresis and double radial immunodiffusion (Ouchterlony), using various antiserum concentrations against appropriate concentrations of the immunogen, a single characteristic precipitin line is obtained which shows a reaction of identity with the precipitin lines obtained against human serum and the purified transthyretin. | | | | | | |
| Cross-reactivity | Inter-species cross-reactivity is a normal feature of antibodies to serum proteins, since homologous proteins of different species frequently share antigenic determinants. The degree of cross-reactivity is also dependent on the concentrations of the reactants and the sensitivity of the assay arrangement. This antiserum has not been tested for cross-reactivity. | | | | | | |
| Protein concentration | Total protein and IgG concentrations in the antiserum are comparable to those in pooled goat serum. No foreign proteins added. | | | | | | |
| Antibody titre | Precipitin titre not less than 1:64 when tested against normal human serum in agar block immunodiffusion titration. | | | | | | |
| Intended use | As precipitating antiserum to identify or measure human transthyretin by a variety of immunodiffusion techniques, including immunoelectrophoresis, single and double radial immunodiffusion (Mancini, Ouchterlony) and electroimmunodiffusion (Laurell). It has not been tested for use in nephelometry, ELISA or immunochemistry, but this does not exclude such use if proper controls are included. | | | | | | |
| Directions for use | In immunoelectrophoresis use 2 µl serum, plasma or equivalent against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and serially diluted) in 2 mm diameter peripheral wells. In single radial immunodiffusion and electroimmunodiffusion use 0.5 to 1.0 percent antiserum in the agar gel. | | | | | | |
| Handling | <p>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.</p> <p>Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.</p> | | | | | | |
| Packing | Vial with 1 ml lyophilized antiserum. | | | | | | |
| Storage / shelf life | <table><tr><td>Lyophilized at +4°C</td><td>at least 10 years</td></tr><tr><td>reconstituted at or below -20°C</td><td>3-5 years</td></tr><tr><td>reconstituted at +4°C</td><td>7 days</td></tr></table> | Lyophilized at +4°C | at least 10 years | reconstituted at or below -20°C | 3-5 years | reconstituted at +4°C | 7 days |
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| reconstituted at +4°C | 7 days | | | | | | |
| Caution | This product should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> laboratory research purposes only. | | | | | | |

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