OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AP31481SU-N Polyclonal Antibody to Guinea Pig Serum Proteins - Serum

Quantity: 1 ml

Concentration: Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.

Host: Goat

Immunogen: Pooled whole Guinea Pig serum and partly purified serum fractions.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format: **State:** Lyophilized (delipidated, heat inactivated), stable whole antiserum without preservatives.
Reconstitution: Restore by adding 1 ml sterile distilled water

Applications: In precipitating techniques as Immunoelectrophoresis and Radial Immunodiffusion (Ouchterlony) to identify the serum protein pattern, or the presence or absence of an individual component.
To evaluate the purity of an isolated serum protein including immunoglobulins.
Since Immunoprecipitation depends on a correct antigen/antibody concentration ratio (zone of equivalence) in the gel medium, the protein analysis by Immunoelectrophoresis of serum or any other biological fluid or protein fraction should include different proportions of the reactants. It is not possible to obtain an optimal protein pattern in a single analysis. The electroendosmosis effect of different types of agar on proteins with a different net charge can be used to optimize the resolution power of the test system. Agar Nordic Nr. 2 contains sufficient positively charged ions to optimize the resolution of the proteins in the beta-gamma regions, while the alpha regions will become more dense. Highly purified agar (Agar Nr. 1) with low electroendosmosis favours the resolution of the proteins in the alpha regions, while the major components in the beta-gamma region can still be identified.
Recommended Dilutions:
Immunoelectrophoresis: Use 2 µl serum or equivalent against 120 µl antiserum.
Double Radial Immunodiffusion (Ouchterlony): Use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl serum samples (neat and serially diluted in 2 mm diameter peripheral wells.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: In immunoelectrophoresis against pooled serum and enriched serum proteins fractions precipitation can be observed of not less than 18 individual proteins components.
Cross-reactivity.
Inter-species cross-reactivity is a normal feature of antibodies to animal proteins since homologous proteins of different species frequently share antigenic determinants. This antiserum has not been adsorbed for such cross-reactivity. Consequently it is not species-specific.

Storage:

Prior to and following reconstitution store the antibody at 2-8°C for one month or at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.