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| Description | Precipitating polyclonal rabbit antiserum to human IgG3, subclass specific | |
| Product code | RAHu/IgG3 | |
| Biological origin | Rabbit | |
| Physical form | Delipidated, heat inactivated, lyophilized, stable whole antiserum | |
| Preservative | No preservative added | |
| Immunogen | Highly purified homogenous IgG3 isolated from human serum. 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 cross-reacting with other subclasses of IgG, other components of the immunoglobulin system or reacting with other serum proteins. Special attention is given to the removal of antibodies to common Ig/Fab. 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 subclass specific determinants on IgG3. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against normal human serum a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgG3. No precipitation reaction is obtained with purified other subclasses of IgG, IgA, IgM, and IgG/Fab fragments. | |
| Cross-reactivity | The antiserum does not cross-react with any other component of the human immunoglobulin system. Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species 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 rabbit serum. No foreign proteins added. | |
| Antibody titre | Precipitin titre 1:32 when tested in agar-block immunodiffusion titration against human serum with appropriate concentrations of monoclonal IgG3. | |
| Intended use | In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgG3 in human serum or other body fluids or to determine its concentration. The antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive techniques. For such uses labelled and unlabelled cytochemical grade mouse monoclonal reagents meeting the necessary additional specificity and performance requirements are available. | |
| Directions for use | In double radial immunodiffusion (Ouchterlony) serum or plasma samples are prepared in serial two-fold dilutions from 1:8 to 1: 128 and placed in the peripheral wells of the rosette arrangement. One well is filled with pooled human serum or another control. The center wells are filled with the subclass specific antiserum and the sera are allowed to diffuse at ambient temperature for 16-24 hours. Frequently the precipitin lines become visible only after staining. | |
| 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 |
| Handling | 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. | |
| 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 <i>in vitro</i> research purposes only. | |

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