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| Description | Precipitating polyclonal rabbit antiserum to rat IgG, Fc specific | |
| Product code | RARa/IgG(Fc) | |
| Biological origin | Rabbit | |
| Physical form | Delipidated, heat inactivated lyophilized stable whole serum | |
| Preservative | No preservative added, as it may interfere with the antibody activity. No foreign protein added. | |
| Immunogen | Purified normal IgG, including all known subclasses, isolated from pooled rat 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 reacting with other components of the immunoglobulin system or reacting with other serum proteins. Special attention is given to the elimination of antibodies to the common Ig/Fab part. The use of insolubilized adsorption antigens prevents the presence of foreign protein or immune complexes in the antiserum. | |
| Identity & Specificity | The reactivity of the antiserum is directed to the Fc subunit of the IgG molecule. The antiserum contains antibodies to subclass-specific determinants as well as to determinants shared by two or more subclasses of IgG. In immunoelectrophoresis and double radial immunodiffusion, using various antiserum concentrations against normal rat plasma, serum, and immunoglobulin fractions, no reaction is obtained with IgA, IgM and IgG/Fab fragments or any other serum protein. | |
| Cross-reactivity | 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, however in double radial immunodiffusion a reaction with mouse has been observed. | |
| Protein concentration | Total protein and IgG concentration in the antiserum are comparable to those of pooled rabbit serum. No foreign proteins added. | |
| Antibody titre | Precipitin titre not less than 1:16 when tested against normal rat serum in agar block titration. | |
| Intended use | In immunoelectrophoresis and double radial immunodiffusion to identify the presence of IgG; as secondary antibody to precipitate the immunoglobulin in normal rat serum; to prepare an immunoadsorbent for the production of Ig-free rat serum, plasma or non-Ig preparations. | |
| Directions for use | In immunoelectrophoresis use 2 µl 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 diluted) in 2 mm diameter peripheral wells. | |
| Handling | The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. It is reconstituted by adding 1 ml sterile distilled water. Working dilutions are prepared by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the product. | |
| Packing | Vial with 1 ml lyophilized antiserum. | |
| Storage / shelf life | Lyophilized at +4°C reconstituted at or below -20°C reconstituted at +4°C | at least 10 years 3-5 years 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 <i>in vitro</i> laboratory research purposes only. | |

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