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| Description | Precipitating polyclonal rabbit antiserum to rat IgG2a, subclass specific | |
| Product code | RARa/IgG2a | |
| Biological origin | Rabbit | |
| Physical form | Delipidated, heat inactivated, lyophilized whole antiserum. | |
| Preservative | No preservative added, as it may interfere with the antibody activity. | |
| Immunogen | Pools of purified homogenous IgG2a isolated from 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 cross-reacting with 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 directed to the Fc portion of the subclass IgG2a. It does not react with other subclasses of IgG, IgG/Fab fragments, IgM and IgA or any non-Ig protein in rat serum, as tested by immunoelectrophoresis and double radial immunodiffusion. | |
| Cross-reactivity | This IgG fraction is not species-specific since inter-species cross-reactivity is a normal feature of antisera to immunoglobulins. Cross-reactivity of this product has not been tested in detail, however in double radial immunodiffusion a weak reaction with mouse has been observed. | |
| Protein concentration | Total protein and IgG concentration in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added. | |
| Antibody titre | Precipitin titre not less than 1:32 when tested against pooled normal rat serum in agar block immunodiffusion titration. | |
| Intended use | In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgG2a in rat serum and other body fluids or to determine its concentration. To prepare an immunoabsorbent for the purification of rat IgG2a from serum or plasma. | |
| 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. 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 <i>in vitro</i> laboratory research purposes only. | |

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