Description	**Precipitating polyclonal goat antiserum to mouse IgG2a, subclass specific**
Product code	GAM/IgG2ab
Biological origin	Goat
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 and IgG2b isolated from mouse serum of strains belonging to the allelic types Igh-1a and Igh-1b. 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 subclasses IgG2a and IgG2b.The antiserum contains antibodies to iso and allospecific determinants. It does not react with other subclasses of IgG, IgG/Fab fragments, IgM and IgA or any non-Ig protein in mouse 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.
Protein concentration	Total protein and IgG concentration in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.
Antibody titre	Precipitin titre not less then 1:16 when tested against pooled normal mouse serum in agar block immunodiffusion titration.
Intended use	In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgG2 in mouse serum and other body fluids or to determine its concentration. To prepare an immunoadsorbent for the purification of mouse IgG2 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 *in vitro* laboratory research purposes only.

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