Description	**Precipitating polyclonal rabbit antiserum to mouse IgG, Fc specific**
Product code	RAM/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 mouse 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 mouse 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 been tested in double radial immunodiffusion against several sera with the following results:

cow -	duck -	hamster +	rat +
cat -	goat -	horse -	sheep -
chicken -	guinea pig+	monkey -	swine -
dog -	human -	pigeon -	turkey -

The absence of a reaction in double radial immunodiffusion does not exclude some reaction in more sensitive techniques.

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 1:64 when tested against normal mouse 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 mouse serum; to prepare an immunoadsorbent for the production of Ig-free mouse 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	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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