Description **Purified IgG fraction of polyclonal rabbit antiserum to mouse immunoglobulins IgG, IgA, IgM, heavy and light chains**

Product code RAM/Ig/7S

Biological origin Rabbit

Physical form Purified hyperimmune rabbit IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2).

Preservative No preservative added, as it may interfere with the antibody activity.

Immunogen Highly purified IgG, including all subclasses, and pools of homogenous IgA and IgM isolated from mouse serum. Freund's complete adjuvant is used in the first step of the immunization procedure.

Purification Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG (7S) fraction by DEAE-chromatography.

Adsorption Immunoaffinity adsorbed using insolubilized Ig-depleted mouse serum as required, to eliminate antibodies reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.

Identity & Specificity The defined antibody specificity is directed to the major isotypes of the mouse immunoglobulin system (classes, subclasses and L chain types) including antibody to common determinants, to class and subclass-specific determinants, and to the surface determinants of the common Fab portion as tested against as tested in immunoelectrophoresis and double radial immunodiffusion (Ouchterlony).

Cross-reactivity Inter-species cross-reactivity is a normal feature of antibodies to mammalian immunoglobulins, since homologous proteins of different species frequently share antigenic determinants. The degree of cross-reactivity is also dependent on the concentrations of the reactants and the sensitivity of the assay arrangement. This antiserum fraction has been tested for cross-reactivity by double radial immunodiffusion against several species sera with the following results:

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

A negative cross-reaction in double radial immunodiffusion does not exclude some reaction in more sensitive techniques.

Physicochemical characteristic IgG protein concentration 10 mg/ml. No foreign proteins added.

Intended use The cytochemical grade of RAM/Ig/7S allows its use in different types of highly sensitive immunoassays on appropriately treated cell and tissue substrates; in radioimmunoassay; for the production of immunoconjugates with a selected marker; to prepare immunoaffinity adsorbents by coupling to an artificial carrier; in non-isotopic methodology based on solid phase immunochemistry (e.g. ELISA), both as catching antibody and detection reagent; in Western blotting.
This product is not pre-diluted. The optimum working dilution of each product should be established by titration before being used.
Working dilutions for histochemical and cytochemical use are usually between 1:100 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays are between 1:1,000 and 1:10,000.

Handling The lyophilized product 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, spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20°C. Prior to use, an aliquot is thawed slowly at ambient temperature, spun down again and used to prepare working dilutions 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 10 mg lyophilized IgG(7S) fraction.

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 product 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.

NORDIC IMMUNOLOGICAL LABORATORIES
Langendijk 25, 5652 AX Eindhoven, The Netherlands
Tel. +31 630 070 625, Fax: +31 402 920 069
E-mail: info@nordiclabs.nl
www.nordiclabs.nl

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