Description	**Precipitating polyclonal rabbit antiserum to cat IgG, heavy and light chains**
Product code	RACa/IgG(H+L)
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 isolated from pooled cat serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
Adsorption	No adsorption required.
Identity & Specificity	The reactivity of the antiserum is directed to the Fc and Fab subunits of the IgG molecule. It includes a certain degree of reactivity with other immunoglobulins via the common Fab portion. It does not react with any non-Ig protein in cat serum, as tested by immuno-electrophoresis and double radial immunodiffusion.
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 with the following results: bovine - duck - guinea pig ± human + pigeon - swine ± chicken - ferret + hamster ± mouse - rat + turkey - dog + goat - horse - monkey ± sheep ±
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 cat 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 cat serum; to prepare an immunoadsorbent for the production of Ig-free cat 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 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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