Description	**Purified IgG fraction of polyclonal sheep antiserum to mouse IgG2a(1b), allotype specific**
Product code	ShAM/IgG2a(1b)/7S
Biological origin	Sheep
Physical form	Purified hyperimmune IgG fraction, lyophilized from a solution in phosphate buffered saline (pH7.2).
Preservative	No preservative added, as it may interfere with the antibody activity.
Immunogen	Highly purified normal homogenous IgG2a(1b) isolated from mouse serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
Purification	The IgG (7S) fraction is isolated and purified from selected antisera and contains the of the defined antibody specificity. It is free of other serum proteins as tested by immunoelectrophoresis and double radial immunodiffusion.
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. 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 restricted to the Fc portion of the IgG2a molecule. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against mouse serum of the allelic type Igh-1b, including C57Bl and SJL/J, a single characteristic precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgG2a(1b). No precipitation reaction is obtained with purified IgG2a(1a) (Balb/C, CBA, AKR and NZB), other IgG subclasses, IgA, IgG/Fab fragments or other serum proteins.
Cross-reactivity	The antiserum does not cross-react with any other component of the mouse Ig system. 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 not been tested in detail; expected chance of cross-reactivity will be small.
Physicochemical characteristic	IgG protein concentration 10 mg/ml. No foreign proteins added.
Intended use	As unlabelled primary or secondary reagent for indirect detection of IgG2a(1b) at the cellular and subcellular level by staining of appropriately treated cell and tissue substrates; to prepare conjugates of the user's own choice; to prepare an insoluble immunoaffinity adsorbent or a solid phase antibody reagent by coupling to an artificial carrier and as catching antibody in non-isotopic methodology and solid phase immunochemistry. *When applied in any cytochemical or histochemical staining procedure or solid phase coupling technique, the optimum concentration of the IgG preparation should be established by titration before being used.* Typical working dilutions in histochemistry are usually between 1:100 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays between 1:500 and 1:4.000. These data should be interpreted as general recommendations only.
Handling	The lyophilized IgG fraction 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 in the dark 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 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

© Nordic Immunological Laboratories 2004