Description	**Purified IgG fraction of polyclonal goat antiserum to rhesus monkey secretory component, free and bound**
Product code	GAMon/SC/7S
Biological origin	Goat
Physical form	Purified hyperimmune goat 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. No foreign protein added.
Immunogen	Secretory component can be present in monkey secretions bound to secretory IgA (sIgA) and in free form. Free monkey secretory component isolated from pooled milk is used for immunization. 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 fraction by DEAE-chromatography.
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross-reacting with other with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Identity & Specificity	Tested in immunoelectrophoresis and double radial immunodiffusion against a panel of appropriate secretions and purified immunoglobulin isotypes. The antiserum reacts with both bound secretory component (secretory IgA) and with free secretory component. In immunoelectrophoresis against normal monkey milk, using a high electroendosmosis agar plate, free secretory component ism precipitated in the alpha-2 region. This antiserum does not react with other molecular forms of IgA, or with any other secretory or plasma protein and double radial immunodiffusion.
Cross-reactivity	Inter-species cross-reactivity is a normal feature of antibodies to serum proteins, since homologous proteins of different species frequently share antigenic determinants. The degree of cross-reactivity is also dependent of the concentration of the reactants and he sensitivity of the method. This product may also react with free and bound secretory component in many old-world monkeys, including Macaca Sylvanus, Cercopithecus, Cynomolgus, Baboon, and also with the secretory component of chimpanzees. In double radial immunodiffusion a reaction has been observed with free human secretory component.
Physicochemical characteristics	IgG protein concentration 10 mg/ml. No foreign proteins added.
Antibody titre	Precipitin titre not less than 1:16 when tested against normal monkey milk in agar block titration.
Intended use	As unlabelled primary or secondary reagent for indirect detection techniques, to prepare conjugates with markers 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 or detection antibody in non-isotopic methodology and solid phase immunochemistry. *When applied in any cytochemical or histochemical procedure or solids phase coupling technique, the optimum concentration of the IgG preparation should always be established by titration.* Typical working dilutions in histochemistry are usually between 1:50 and 1:250; in ELISA and comparable non-precipitating antibody-binding assays between 1:200 and 1:1,000.
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 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 purified hyperimmune IgG.
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.

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