

Description	Horseradish peroxidase-conjugated IgG fraction of polyclonal goat antiserum to human secretory component, free and bound	
Product code	GAHu/SC/PO	
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 human secretions bound to secretory IgA (sIgA) and in free form. Free human 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 human milk, using a high electroendosmosis agar plate, free secretory component is 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 the sensitivity of the method, but has not been tested in detail.	
Physicochemical characteristics	IgG protein concentration 10 mg/ml. Enzyme/IgG protein molar ratio (E/P) approximately 1.7. No foreign proteins added.	
Enzyme marker	Horseradish peroxidase enriched for isoenzyme C (RZ=3.2)	
Intended use	<p>In enzyme-immunocytochemical and immunohistochemical staining of free or bound secretory component at the cellular and subcellular level. In non-isotopic assay methodology (e.g. ELISA, Western blotting) in human milk or other secretions.</p> <p><i>This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.</i></p> <p>Working dilutions for histochemical and cytochemical use are usually between 1:100 and 1:500; in ELISA and comparable non-precipitating antibody-binding assays between 1:1,000 and 1:6,000.</p>	
Handling	<p>The lyophilized immunoconjugate 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.</p>	
Packing	Vial with 1 ml lyophilized immunoconjugate.	
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 immunoconjugate should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> laboratory research purposes only.	

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