# *NORDIC IMMUNOLOGY*

**Product Specification**

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| **Description** | **Precipitating polyclonal sheep antiserum to human secretory IgA** |
| **Product code** | ShAHu/sIgA |
| **Biological origin** | Sheep |
| **Physical form** | Delipidated, heat inactivated, lyophilized, stable whole antiserum |
| **Preservative** | No preservative added. |
| **Immunogen** | Highly purified secretory IgA isolated from pooled human milk. Freund's complete adjuvant is used in the first step of the immunization procedure. |
| **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 or milk 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 part of the IgA molecule and to surface and hidden determinants of the secretory component as tested in immunoelectrophoresis and radial immunodiffusion. In immunoelectrophoresis using various antiserum concentrations against normal human milk two precipitin lines may be obtained, one representing IgA and the other the free secretory component. Against normal human serum only IgA is precipitated. No precipitation reaction is obtained with purified IgG, IgM, and IgG/Fab fragments. |
| **Cross-reactivity** | The antiserum does not cross-react with any other component of the human 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. |
| **Protein concentration** | Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal sheep serum. No foreign proteins added. |
| **Antibody titre** | Precipitin titre 1:64 when tested against pooled normal human serum in agar-block immuno-diffusion titration. |
| **Intended use** | In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgA in human serum, milk or other body fluids or to determine its concentration. To prepare an immunoadsorbent for the purification of human IgA from serum or exocrine secretions. Antisera to IgA do not discriminate between serum IgA (monomeric and dimeric) and higher molecular forms as secretory IgA. This antiserum is not intended for use in non-precipitating antibody-binding or other highly sensitive assays. This does not exclude such use if proper controls are include. |
| **Directions for use** | In immunoelectrophoresis use 2 µl serum or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter centre well and 2 µl serum samples (neat and serially 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. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum.<br>Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day. |
| **Packing** | Vial with 1 ml lyophilized antiserum. |
| **Storage / shelf life** | Lyophilized at +4°C — at least 10 years<br>reconstituted at or below -20°C — 3-5 years<br>reconstituted at +4°C — 7 days |
| **Caution** | This antiserum 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* research purposes only. |

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