

<b>Description</b>	<b>Ig fraction of polyclonal goat antiserum to human immunoglobulin IgD, Fc specific</b>	
<b>Product code</b>	GAHu/IgD(Fc)/IFix	
<b>Biological origin</b>	Goat	
<b>Physical form</b>	Goat Ig lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2).	
<b>Preservative</b>	No preservative added, as it may interfere with the antibody activity.	
<b>Immunogen</b>	Highly purified monoclonal IgD isolated from human serum. Freund's complete adjuvant is used in the first step of the immunization procedure.	
<b>Purification</b>	Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG (7S) fraction by DEAE-chromatography.	
<b>Adsorption</b>	Immunoaffinity adsorbed using insolubilized antigens as required to eliminate antibodies cross-reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.	
<b>Identity &amp; Specificity</b>	The reactivity of the antiserum is directed to the Fc subunit of the IgD molecule which expresses strict isotypic (class) specificity. It does not react with any non-Ig protein in human serum, as tested by immunoelectrophoresis and double radial immunodiffusion.	
<b>Cross-reactivity</b>	Inter-species cross-reactivity is a normal feature of antibodies to mammalian immunoglobulins, since homologous proteins of different species frequently share antigenic determinants. The degree of cross-reactivity is also dependent on the concentrations of the reactants and the sensitivity of the assay arrangement. This antiserum fraction has not been tested for cross-reactivity.	
<b>Physicochemical characteristic</b>	IgG protein concentration 10 mg/ml. No foreign proteins added.	
<b>Antibody titre</b>	Precipitin titre not less than 1:16 when tested against an appropriate reference in agar immunodiffusion block titration.	
<b>Intended use</b>	<p>This antiserum is intended to detect and identify IgD in serum or other body fluids using the immunofixation technique. Like immunoelectrophoresis immunofixation is essentially a two step technique. Proteins in a complex mixture are separated by electrophoresis in a gel carrier, followed by immunoprecipitation in situ with the antiserum. Non-precipitated proteins are removed by washing and the precipitated complex is revealed with a protein stain which allows its exact localization. Immunofixation may be the method of choice whenever a high level of sensitivity is required to identify a minor protein component against a high background of other proteins. It enables the detection and identification of more than one paraproteins in serum or of free light chain. The detection limit is approximately 0.5 to 1 mg/ml in the presence of normal levels of immunoglobulins.</p> <p><i>This product is not pre-diluted. The optimum working dilution of each product should be established by titration before being used.</i></p>	
<b>Handling</b>	The lyophilized product 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.	
<b>Packing</b>	Vial with 1 ml lyophilized Ig fraction.	
<b>Storage / shelf life</b>	Lyophilized at +4°C	at least 10 years
	reconstituted at or below -20°C	3-5 years
	reconstituted at +4°C	7 days
<b>Caution</b>	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 <i>in vitro</i> 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