

Sheep anti Human IgG4 (subclass specific) Secondary Antibody

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CATALOG #	HOST	REACTIVITY
AAA77553	Sheep	Human 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.

PRODUCT SYNONYMS

Sheep anti Human IgG4 (subclass specific); Polyclonal Secondary Antibody; Sheep anti Human IgG4 (subclass specific) secondary antibody

PRODUCT SPECIFICATIONS

Host	Sheep
Reactivity	Human 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.
Clonality	Polyclonal
Specificity	Precipitating polyclonal Sheep antisera to Human IgG4, subclass specific.
Form/Format	Delipidated, heat inactivated lyophilized stable whole serum No preservative added, as it may interfere with the antibody activity. No foreign protein added. Total protein and IgG concentration in the antiserum are comparable to those of pooled sheep seru
Source	Purified homogenous IgG4 is isolated from human serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
Reactivity Note	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.
Background	The activity of the antiserum is directed to human IgG4 subclass. It does not react with any non-Ig protein in human serum, as tested by immunoelectrophoresis and double radial immunodiffusion. In precipitating techniques as immunoelectrophoresis and double radial immunodiffusion to identify and measure the concentration of IgG4 subclass in serum or other body fluids. Human IgG constitutes about 75% of the total Immunoglobulins in the serum of normal adults. It consists of four subclasses which are distinguished in isotypic heterogeneity of the gamma chains, and in physicochemical, biological and effector properties. The term "subclass" designates the high degree of homology in amino acid sequences and antigenic structure. In normal adult serum, the approximate percentage composition of IgG with respect to its subclasses is: IgG1: 65%, IgG2: 23%, IgG3: 8% and IgG4: 4%. All four subclasses appear in both isotypes of the light chain. Normal serum thus contains eight different molecular forms of IgG, the absolute and relative distribution being genetically controlled and resulting from individual responses to the antigenicity of the environment. Antigenic determinants carrying isotypic subclass specificity can be situated on any of the three structurally very similar sub-regions o the gamma chains, known as domains. In IgG, some antigenic determinants are shared by two or three subclasses, but not by all four. Consequently, antibodies to such determinants will not be strictly subclass-specific.
Product	Delipidated, heat inactivated lyophilized stable whole serum No preservative added, as it may interfere with the antibody activity. No foreign protein added. Total protein and IgG concentration in the antiserum are comparable to those of pooled sheep serum. No foreign proteins added. It is reconstituted by adding 1 ml sterile distilled water.
Preparation and Storage	Store at 4 degree C; prolonged storage at or below -20 degree C. 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 product.

ADDITIONAL INFORMATION

Product Categories/Family for Sheep anti Human IgG4 (subclass specific) secondary antibody	Antisera
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/sheep-anti-human-igg4-subclass-specific-secondary-antibody-elisa/77553>