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Rabbit anti Guinea Pig C3c

Catalogue number: **RAGp/C3c**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	1 ml
Host	Rabbit
Species reactivity	Guinea Pig
Application	Immunoprecipitation

Distributors

For Purchasing Information, please contact your local distributor

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Background

In immunoelectrophoresis against fresh guinea pig serum, a single precipitin line is obtained in the beta-1 region representing native C3. Against serum containing partly activated C3, a precipitin line is obtained which extends from the beta-1 into the alpha-2 region, demonstrating a gradient. In old serum containing totally activated C3 a single precipitin line in the alpha-2 region is obtained. The product does not react with any other proteins component of guinea pig serum or plasma. In precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of complement C3c or to determine its concentration. The presence of non-precipitating antibodies has not been assayed. This does not exclude the use of the antiserum in non-precipitating antibody-binding techniques if proper controls are included. Determinations of individual complement components can be very useful in defining the exact location of a defect.

Source

C3 is the most abundant complement protein in guinea pig serum. Its biological function strongly resembles that of C3 in man and other laboratory animal species. It has a central role in the activation system being common in both pathways. Activation of C3 is achieved by specific limited proteolysis resulting in the increase of a number of degradation fragments. The anaphylatoxin C3a promotes smooth muscle contraction and increases vascular permeability; the large C3b fragment is involved in binding to the complement activator and can interact with specific receptors to allow efficient clearance of the activating cell or particle; degradation fragments of C3b (C3bi, C3c, C3dg and C3d) are important in receptor binding and clearance mechanisms, in virus neutralization and possible in the immune response. The antiserum is raised against C3c which is the major fragment resulting from the C3 cleavage by C3 convertase and factor I. It is composed of an intact beta chain bound to two fragments of the

alpha chain. Consequently antisera to C3c react with both native and activated C3. It may also react with the fragments C3b, C3bi and C3dg, since they all carry antigenic epitopes of the C3c domain. The protein is isolated and purified from pooled normal guinea pig serum by precipitation techniques, followed by chromatographical methods. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated, lyophilized, stable whole serum. No preservative added. Total protein and IgG concentrations in the antiserum are comparable to those of normal pooled rabbit serum. No foreign proteins added.

Applications

Immunoprecipitation. In immunoelectrophoresis use 2 µl guinea pig plasma or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl plasma samples (neat and serially diluted) in 2 mm diameter peripheral wells. In single radial immunodiffusion use 1 percent antiserum in the gel.

Cross Reactivity

Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail.

Specificity

Precipitating polyclonal Rabbit antiSerum to C3c subunit of Guinea Pig complement C3.

Storage

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. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day. 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 is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

