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Sheep anti Human C4 binding protein

nordicmubio.com/product/sheep-anti-human-c4-binding-protein

Catalogue number: **ShAHu/C4bp**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	1 ml
Host	Sheep
Application	Immunoelectrophoresis

Background

The reactivity of the antiserum is restricted to C4 binding protein. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against human plasma a single precipitin line is obtained and shows a reaction of full identity with the purified immunogen. In precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of C4 binding protein 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.

Source

C4-binding protein is a plasma protein with a molecular weight of 500,000 and consists of 6 chains. Its concentration in serum is about 250 µg/ml. It is one of the inhibitors of the complement activation system. The protein combines up to six molecules of C4b at or near the C2 combining site and is thus preventing further association with C2. It has been isolated as a homogenous protein for use in the antiserum production. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated, lyophilized, stable antiserum. No preservative added. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water.

Specificity

Precipitating polyclonal Sheep antiSerum to Human C4 binding protein.

Species Reactivity: The antiSerum does not cross-react with any other Human plasma proteins as tested in geldiffusion techniques. 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.

Applications

Precipitation assays. In immunoelectrophoresis in agarose-plates use 2 µl human 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.

Storage

The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. 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.

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.

Protein Reference(s)

Database Name: UniProt

Accession number: P04003