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Datasheet for ABIN458098
anti-Complement C4 antibody (cleaved)

Overview

Quantity:	1 mL
Target:	Complement C4 (C4)
Binding Specificity:	cleaved
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Complement C4 antibody is un-conjugated
Application:	Immunoelectrophoresis (IEP)

Product Details

Immunogen:	C4 and C2 represent substrates for activated C1. Both components are present in serum in an inert form. C4 is composed of 3 polypeptide chains of three different types, alpha, beta, gamma . One of the chains is cleaved by the action of activated C1, resulting in activation of C4 exposing an binding site for the next component in the sequence, C2. C4 has a molecular weight of 205.000 and is present in plasma in an average concentration of 600 µ g/ml. The activation of C4 yields two peptide fragments: C4a (MW 8,000) and C4b (MW 198,000). This process shows a considerable degree of similarity to the activation of the components C3 and C5. The C4 is isolated as a homogenous protein for use in antiserum production. Freund's complete adjuvant is used in the first step of the immunization procedure.
Isotype:	IgG
Specificity:	Inter-species cross-reactivity is a normal feature of antibodies to serum proteins, since homologous proteins of different species frequently share antigenic determinants. The degree

Product Details

of cross-reactivity is also dependent on the concentrations of the reactants and the sensitivity of the assay arrangement. This antiserum has been tested for cross-reactivity in double radial immunodiffusion with bovine serum and found negative.

Characteristics: Precipitating polyclonal rabbit antiserum to the C4 component of human complement

Purification: Adsorption: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.

Target Details

Target: Complement C4 (C4)

Alternative Name: C4 Component of Complement ([C4 Products](#))

Background: The reactivity of the antiserum is restricted to C4. In immunoelectrophoresis and radial immunodiffusion (Ouchterlony), using various antiserum concentrations against fresh normal human plasma a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified C4 protein. Activated C4b may also react with the antiserum. No reaction is obtained with any other plasma protein component or serum.

Pathways: [Complement System](#)

Application Details

Application Notes: In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion to identify the presence of C4 containing complexes in human plasma or other body fluids 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 more sensitive non-precipitating antibody-binding techniques if proper controls are included.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Concentration: Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added. Antibody titre: Precipitin titre 1:16 when tested against in agar-block immunodiffusion titration against human serum.

Buffer: Delipidated, heat inactivated, lyophilized, stable whole antiserum

Handling

Preservative: Without preservative

Storage: 4 °C