

Product datasheet for AP21451HR-N

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

C3 Goat Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, ID, IF, IP, WB

Recommended Dilution: Can be used in enzyme-immunocytochemical and histochemical staining of guinea pig C3c in

appropriately prepared substrates at the cellular and subcellular level. Locally deposited immune complexes in tissue usually contain complement, pointing to activation of the classical pathway. Complement activation in vivo implies active disease and may contribute to the elicitation of the pathogenesis and he extent of tissue destruction. In ELISA and Western blotting to identify guinea pig C3c in serum or other body fluids. This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by

titration before being used. Excess labelled antibody must be avoided because it may cause

high unspecific background staining and interfere with the specific signal.

Recommended working dilutions:

Histochemical and Cytochemical: 1/100 - 1/500.

In ELISA and comparable non-precipitating antibody-binding assays: 1/1000 - 1/5000.

Reactivity: Guinea Pig

Host: Goat Isotype: IgG

Clonality: Polyclonal

Immunogen: C3c is isolated and purified from pooled normal guinea pig serum. Freund's complete

adjuvant is used in the first step of the immunization procedure.

Specificity: 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. Antisera to C3c cab also react with the fragments C3b, C3bi and smaller fragments, since they all carry antigenic determinants of the C3c domain. The product does not react with any other proteins component of guinea pig serum or plasma. Cross-reactivity: The antiserum does not cross-react with any other component of guinea pig plasma. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiserum has not

been tested in detail.





C3 Goat Polyclonal Antibody - AP21451HR-N

Formulation: PBS, pH 7.2 without preservatives

Label: HRP

State: Lyophilized purified IgG fraction

Label: Horseradish Peroxidase Molar radio: Peroxidase/IgG ~1.2

Reconstitution Method: Restore by adding 1 ml of sterile distilled water.

Concentration: lot specific

Purification: Hyperimmune antisera with strong precipitating activity are selected for Fractionation by Salt-

Precipitation and DEAE-Chromatography

Conjugation: HRP

Storage: Prior to and following reconstitution store the antibody at 2-8°C for one month or at -20°C for

longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: complement component 3

Database Link: Entrez Gene 24232 Rat

P01026

Background: 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 to both pathways. Activation of C3 is achieved by

very specific limited proteolysis resulting in the release of a number of degradation fragments. The anaphylotoxin C3a promotes smooth muscle contraction and increases vascular permeability: the large C3b fragment is involved in binding to the complement activator and can be interact with specific receptors to allow efficient clearance of the activating cell or particle; degradation fragments of C3b (C3bi, C3c, C3dg C3d) are important in receptor binding and clearance mechanisms, in virus neutralization and possibly in the

from 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 the antiserum reacts with both native and activated C3. It may also react with the fragments C3b, C3bi and C3dg, since they all carry

immune response. The antiserum is raised against C3c, which is the major fragment resulting

antigenic epitopes of the C3c domain.

Synonyms: CPAMD1, Complement component 3

Note: <u>Adsorption:</u> Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate

antibodies reacting with other with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the

antiserum.