C1q-A (D-15): sc-27659



The Power to Question

BACKGROUND

C1q, a subcomponent of the classical complement pathway, mediates its activation and thereby plays an important role in immune response. The presence of receptors for C1q on effector cells modulates its activity, which may be antibody-dependent or independent. Macrophages are the primary source of C1q, and anti-inflammatory drugs as well as cytokines differentially regulate expression of the mRNA as well as the protein. However, its ability to modulate the interaction of platelets with collagen and immune complexes suggests C1q influences homeostasis as well as other immune activities, and perhaps thrombotic complications resulting from immune injury.

REFERENCES

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- Hiepe, F., Pfuller, B., Wolbart, K., Bruns, A., Leinenbach, H.P., Hepper, M., Schossler, W. and Otto, V. 1999. C1q: a multifunctional ligand for a new immunoadsorption treatment. Ther. Apher. 3: 246-251.
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- 4. Faust, D. and Loos, M. 2002. *In vitro* modulation of C1q mRNA expression and secretion by interleukin-1, interleukin-6, and interferon-γ in resident and stimulated murine peritoneal macrophages. Immunobiology 206: 368-376.
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- Petry, F. and Loos, M. 2005. Common silent mutations in all types of hereditary complement C1q deficiencies. Immunogenetics 57: 566-571.

CHROMOSOMAL LOCATION

Genetic locus: C1QA (human) mapping to 1p36.12; C1qa (mouse) mapping to 4 D3.

SOURCE

C1q-A (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C1q-A of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27659 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

C1q-A (D-15) is recommended for detection of precursor and mature C1q-A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for C1q-A siRNA (h): sc-43651.

Molecular Weight of C1q-A: 29 kDa.

Positive Controls: human macrophages, U-937 cell lysate: sc-2239 or THP-1 cell lysate: sc-2238.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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