**BACKGROUND**

The complement component proteins: C2, C3, C4, and C5 are potent anaphylatoxins that are released during complement activation. Binding of these proteins to their respective G protein-coupled receptors induces proinflammatory events such as cellular degranulation, smooth muscle contraction, arachidonic acid metabolism, cytokine release, leukocyte activation, and cellular chemotaxis. C2 deficiency (C2D) is the most common deficiency of the classical complement pathway and is mostly found in patients with autoimmune disease or susceptibility to bacterial infections. The N-terminal extracellular domain 1 of complement C2 receptor inhibitory trispanning, or CRIT, binds to C2 and specifically interacts with the C2α fragment. In doing so, CRIT blocks C2 cleavage and also prevents the classical pathway of C3 convertase formation.

**REFERENCES**


**CHROMOSOMAL LOCATION**


**SOURCE**

C2 (E-7) is a mouse monoclonal antibody raised against amino acids 204-503 mapping within an internal region of C2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChiP applications, sc-373809 X, 200 µg/0.25 ml.

C2 (E-7) is recommended for detection of C2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 C2 siRNA (h): sc-95541, C2 shRNA Plasmid (h): sc-95541-SH and C2 shRNA (h) Lentiviral Particles: sc-95541-V.

C2 (E-7) X TransCruz antibody is recommended for Gel Supershift and ChiP applications.

Molecular Weight of C2: 85 kDa.
Molecular Weight of glycosylated C2: 102 kDa.
Positive Controls: human liver extract: sc-363766, human spleen extract: sc-363779 or human ovary extract: sc-363769.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**STORAGE**

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