

C1s (H-69): sc-99196

BACKGROUND

The complement component proteins, C1, 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. C1q, together with proenzymes C1r and C1s, yield C1, the first component of the classical pathway of the serum complement system. C1 consists of a calcium dependent trimolecular complex of C1r, C1s and C1q in a 2:2:1 ratio. Activated C1s is in the form of a disulfide-linked heterodimer consisting of a heavy chain and a light chain. Defects in the gene encoding for C1s can cause selective C1s deficiency, a disorder characterized by early onset of various autoimmune diseases.

CHROMOSOMAL LOCATION

Genetic locus: C1S (human) mapping to 12p13.31; C1s (mouse) mapping to 6 F2.

SOURCE

C1s (H-69) is a rabbit polyclonal antibody raised against amino acids 140-208 mapping within an internal region of C1s 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.

STORAGE

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

RESEARCH USE

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

APPLICATIONS

C1s (H-69) is recommended for detection of mature C1 esterase and C1s precursor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

C1s (H-69) is also recommended for detection of mature C1 esterase and C1s precursor in additional species, including equine, canine and porcine.

Suitable for use as control antibody for C1s siRNA (h): sc-60301, C1s siRNA (m): sc-60302, C1s shRNA Plasmid (h): sc-60301-SH, C1s shRNA Plasmid (m): sc-60302-SH, C1s shRNA (h) Lentiviral Particles: sc-60301-V and C1s shRNA (m) Lentiviral Particles: sc-60302-V.

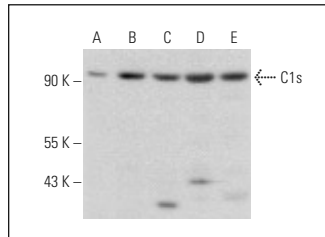
Molecular Weight of C1s: 88 kDa.

Positive Controls: C1s (h): 293T Lysate: sc-116635, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

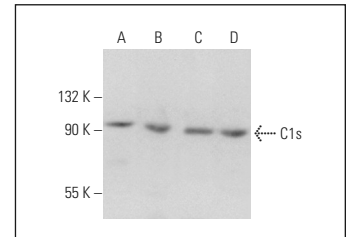
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



C1s (H-69): sc-99196. Western blot analysis of C1s expression in non-transfected 293T: sc-117752 (A), human C1s transfected 293T: sc-116635 (B), Hep G2 (C), HeLa (D) and Jurkat (E) whole cell lysates.



C1s (H-69): sc-99196. Western blot analysis of C1s expression in A549 (A), A-431 (B), PC-12 (C) and COLO 320DM (D) whole cell lysates.

PROTOCOLS

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



Try **C1s (D-6): sc-365273**, our highly recommended monoclonal alternative to C1s (H-69).