

## C6 (B-3): sc-390716



The Power to Question

**BACKGROUND**

The complement cascade is a multi-protein system that functions to clear pathogens from an infected host. Part of the innate (unchanging) immune system, the complement cascade consists of proteins and inactive zymogens that are present in blood and are stimulated by one of several triggers. Once stimulated, the cascade relays amplified responses throughout the body, ultimately activating the cell-killing membrane attack complex which can insert itself into the cell membrane and cause the cell to lyse. C6 (complement component C6) is a 934 amino acid secreted protein that plays a role in the complement cascade, specifically functioning as part of the membrane attack complex. Expressed as two transcript variants, C6 contains one EGF-like domain, one LDL-receptor class A domain, one MACPF domain, two Sushi domains and three TSP type-1 domains. C6 deficiency is correlated with a higher risk of bacterial infection, further supporting the importance of C6 in the innate immune system.

**REFERENCES**

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**STORAGE**

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

**CHROMOSOMAL LOCATION**

Genetic locus: C6 (human) mapping to 5p13.1.

**SOURCE**

C6 (B-3) is a mouse monoclonal antibody raised against amino acids 118-360 mapping near the N-terminus of C6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

C6 (B-3) is recommended for detection of C6 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for C6 siRNA (h): sc-72769, C6 shRNA Plasmid (h): sc-72769-SH and C6 shRNA (h) Lentiviral Particles: sc-72769-V.

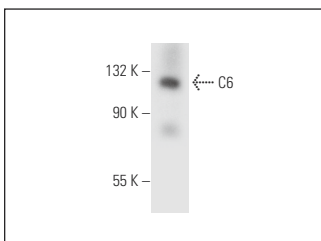
Molecular Weight of C6: 120 kDa.

Positive Controls: human platelet extract: sc-363773.

**RECOMMENDED SUPPORT REAGENTS**

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

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

C6 (B-3): sc-390716. Western blot analysis of C6 expression in human platelet extract.

**RESEARCH USE**

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