

# C8 $\alpha$ (h): 293T Lysate: sc-372979

## 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. C8 $\alpha$  (complement component 8,  $\alpha$  polypeptide) is a 584 amino acid secreted protein that contains one EGF-like domain, one LDL-receptor class A domain, one MACPF domain and 2 TSP domains. Existing as a part of the membrane attack complex with C8 $\beta$  and C8 $\gamma$ , C8 $\alpha$  binds to the C5-8 complex and acts to catalyze the polymerization of C9. Defects in the gene encoding C8 $\alpha$  are associated with complement C8 deficiency type I (C8D1), a condition characterized by recurrent bacterial infections.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: C8A (human) mapping to 1p32.2.

## RESEARCH USE

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

## PRODUCT

C8 $\alpha$  (h): 293T Lysate represents a lysate of human C8 $\alpha$  transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

C8 $\alpha$  (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive C8 $\alpha$  antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.