

C8 γ (C-14): sc-107174

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 γ (complement component 8, γ polypeptide), also known as C8C or C8G, is one of three polypeptides (along with C8 α and C8 β) that constitutes C8, a component of the complement system. Consisting of 202 amino acids, C8 γ is a secreted protein that is able to bind retinol and belongs to the lipocalin family and calycin superfamily.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C8G (human) mapping to 9q34.3.

SOURCE

C8 γ (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of C8 γ of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-107174 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C8 γ (C-14) is recommended for detection of C8 γ 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); non cross-reactive with family members C8 α or C8 β .

Suitable for use as control antibody for C8 γ siRNA (h): sc-92621, C8 γ shRNA Plasmid (h): sc-92621-SH and C8 γ shRNA (h) Lentiviral Particles: sc-92621-V.

Molecular Weight of C8 γ : 22 kDa.

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.

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.

PROTOCOLS

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

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Try **C8 γ (H-10): sc-515150**, our highly recommended monoclonal alternative to C8 γ (C-14).