

Angptl3 (S-15): sc-83089

BACKGROUND

Angiotensin-like protein 3 (Angptl3) functions as a potent lipoprotein lipase inhibitor and is an important component of plasma triglyceride homeostasis. Angptl3 also plays a role in adipose formation and angiogenesis through its interaction with Integrin $\alpha V/\beta 3$. It is secreted by the liver and is functionally defined by the C-terminal fibrinogen (FBN)-like domain and an N-terminal coiled-coil domain. Angptl3 regulates circulating triglyceride levels during different nutritional states thereby mediating the feeding/fasting cycle. A deficiency of Angptl3 results in abnormally low lipid levels, and a repression of the protein may be protective against atherosclerosis. Angptl3 may also play an important role in hyperlipidemia in diabetes.

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CHROMOSOMAL LOCATION

Genetic locus: ANGPTL3 (human) mapping to 1p31.3; Angptl31 (mouse) mapping to 4 C6.

SOURCE

Angptl3 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Angptl3 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-83089 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Angptl3 (S-15) is recommended for detection of Angptl3 of mouse, rat and 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 Angpt12 or Angpt14.

Suitable for use as control antibody for Angptl3 siRNA (h): sc-61911, Angptl3 siRNA (m): sc-61912, Angptl3 shRNA Plasmid (h): sc-61911-SH, Angptl3 shRNA Plasmid (m): sc-61912-SH, Angptl3 shRNA (h) Lentiviral Particles: sc-61911-V and Angptl3 shRNA (m) Lentiviral Particles: sc-61912-V.

Molecular Weight of Angptl3: 63 kDa.

Positive Controls: mouse liver extract: sc-2256.

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.



Try **Angptl3 (G-5): sc-365887**, our highly recommended monoclonal alternative to Angptl3 (S-15).