# Angptl6 (K-12): sc-160958



The Boures to Overtion

## **BACKGROUND**

Angptl6 (angiopoietin-like 6), also known as AGF or ARP5, is a 470 amino acid secreted protein that contains one Fibrinogen C-terminal domain and is a member of the angiopoietin-like family. Expressed abundantly in liver and present at lower levels in testis, kidney, heart, brain and lung, Angptl6 plays a role in wound healing and is also thought to promote neovascularization and enhance the chemotactic activity of endothelial cells. Additionally, Angptl6 may be involved in epidermal proliferation, remodeling and regeneration and may be able to counteract obesity by increasing energy expenditure. Human Angptl6 shares 74% amino acid identity with its mouse counterpart, suggesting a conserved role between species. The gene encoding Angptl6 maps to human chromosome 19, which is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (Fc Rs).

## **REFERENCES**

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- Oike, Y., et al. 2004. Angiopoietin-related growth factor (AGF) promotes angiogenesis. Blood 103: 3760-3765.
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- Zhang, Y., et al. 2006. Angiopoietin-related growth factor (AGF) supports adhesion, spreading, and migration of keratinocytes, fibroblasts, and endothelial cells through interaction with RGD-binding integrins. Biochem. Biophys. Res. Commun. 347: 100-108.
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## CHROMOSOMAL LOCATION

Genetic locus: ANGPTL6 (human) mapping to 19p13.2; Angptl6 (mouse) mapping to 9 A3.

## **SOURCE**

Angptl6 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Angptl6 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160958 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

Angptl6 (K-12) is recommended for detection of Angptl6 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 other Angpt family members .

Angptl6 (K-12) is also recommended for detection of Angptl6 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Angptl6 siRNA (h): sc-97470, Angptl6 siRNA (m): sc-141062, Angptl6 shRNA Plasmid (h): sc-97470-SH, Angptl6 shRNA Plasmid (m): sc-141062-SH, Angptl6 shRNA (h) Lentiviral Particles: sc-97470-V and Angptl6 shRNA (m) Lentiviral Particles: sc-141062-V.

Molecular Weight of Angptl6: 50 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) 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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