

# Angptl4 (H-200): sc-66806

## BACKGROUND

Angiotensin-like 4 (Angptl4), also designated hepatic Fibrinogen/angiotensin-related protein (HFARP), is a secreted protein which, through an endocrine action, exerts a protective function over endothelial cells. The Angptl4 gene has hypoxia-induced expression in endothelial cells. Angptl4 has a highly hydrophobic region at the N-terminus that is typical of a secretory signal sequence and one consensus glycosylation site. Angptl4 is considered a marker of renal cell carcinoma (other renal tumor cells do not produce Angptl4 mRNA). Evidence suggests that Angptl4 is a blood-borne hormone directly involved in regulating glucose homeostasis, lipid metabolism and Insulin sensitivity. Angptl4 exerts distinct effects on glucose and lipid metabolism, and may be useful for the treatment of diabetes.

## REFERENCES

- Kim, I., et al. 2000. Hepatic expression, synthesis and secretion of a novel fibrinogen/angiotensin-related protein that prevents endothelial-cell apoptosis. *Biochem. J.* 346: 603-610.
- Li, K.Q., et al. 2004. Antitumor effect of recombinant retroviral vector-mediated human Angptl4 gene transfection. *Chin. Med. J.* 117: 1364-1369.
- Ge, H., et al. 2005. Differential regulation and properties of angiotensin-like proteins 3 and 4. *J. Lipid Res.* 46: 1484-1490.
- Yu, X., et al. 2005. Inhibition of cardiac lipoprotein utilization by transgenic overexpression of Angptl4 in the heart. *Proc. Natl. Acad. Sci. USA* 102: 1767-1772.

## CHROMOSOMAL LOCATION

Genetic locus: ANGPTL4 (human) mapping to 19p13.2.

## SOURCE

Angptl4 (H-200) is a rabbit polyclonal antibody raised against amino acids 51-250 mapping near the N-terminus of Angptl4 of human origin.

## PRODUCT

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

## APPLICATIONS

Angptl4 (H-200) is recommended for detection of Angptl4 of human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (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 Angptl4 siRNA (h): sc-44664, Angptl4 shRNA Plasmid (h): sc-44664-SH and Angptl4 shRNA (h) Lentiviral Particles: sc-44664-V.

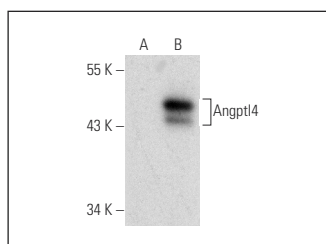
Molecular Weight of Angptl4: 50 kDa.

Positive Controls: Angptl4 (h): 293T Lysate: sc-370904.

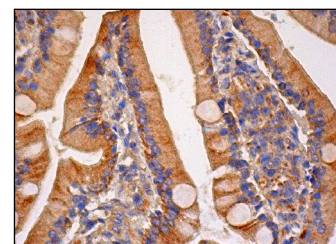
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



Angptl4 (H-200): sc-66806. Western blot analysis of Angptl4 expression in non-transfected: sc-117752 (A) and human Angptl4 transfected: sc-370904 (B) 293T whole cell lysates.



Angptl4 (H-200): sc-66806. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing cytoplasmic staining of glandular cells.

## SELECT PRODUCT CITATIONS

- Knowles, H.J., et al. 2010. Hypoxia-inducible factor regulates osteoclast-mediated bone resorption: role of angiotensin-like 4. *FASEB J.* 24: 4648-4659.
- Sekizawa, N., et al. 2011. Transcriptome analysis of aldosterone-regulated genes in human vascular endothelial cell lines stably expressing mineralocorticoid receptor. *Mol. Cell. Endocrinol.* 341: 78-88.

## 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.

**MONOS**  
Satisfaction  
Guaranteed

Try **Angptl4 (A-2): sc-373761** or **Angptl4 (C-7): sc-373762**, our highly recommended monoclonal alternatives to Angptl4 (H-200).