

Vasculin (H-65): sc-292168

BACKGROUND

Vasculin wall-linked protein, or Vasculin, is primarily expressed in the arterial wall and in plasma. It is also differentially expressed in human atherogenesis. Alternative splicing of exon 3 of the Vasculin gene produces variants. Vasculin binds to and activates the minimal self-sufficient promoter element (MSPE) of the mouse Ada gene promoter and binds to and partially suppresses the GC-rich promoter of the nonhomologous human TOP2A gene promoter. It acts as a nuclear factor that can form complexes with TATA-binding proteins, transcription factors TFIIB and TFIIF, RNA polymerase II and p300. The regulated expression of Vasculin in plaques suggests that it may be involved in atherogenesis, and its presence in plasma may implicate Vasculin as a marker for atherosclerosis.

REFERENCES

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2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608412. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Bijnens, A.P., Gils, A., Jutten, B., Faber, B.C., Heeneman, S., Kitslaar, P.J., Tordoir, J.H., de Vries, C.J., Kroon, A.A., Daemen, M.J. and Cleutjens, K.B. 2003. Vasculin, a novel vascular protein differentially expressed in human atherogenesis. *Blood* 102: 2803-2810.
4. Hsu, L.C., Liu, S., Abedinpour, F., Beech, R.D., Lahti, J.M., Kidd, V.J., Greenspan, J.A. and Yeung, C.Y. 2003. The murine G+C-rich promoter binding protein mGPBP is required for promoter-specific transcription. *Mol. Cell. Biol.* 23: 8773-8785.

CHROMOSOMAL LOCATION

Genetic locus: GPBP1 (human) mapping to 5q11.2; Gpbp1 (mouse) mapping to 13 D2.2.

SOURCE

Vasculin (H-65) is a rabbit polyclonal antibody raised against amino acids 57-121 mapping near the N-terminus of Vasculin 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.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

Vasculin (H-65) is recommended for detection of Vasculin of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Vasculin (H-65) is also recommended for detection of Vasculin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Vasculin siRNA (h): sc-61774, Vasculin siRNA (m): sc-61775, Vasculin shRNA Plasmid (h): sc-61774-SH, Vasculin shRNA Plasmid (m): sc-61775-SH, Vasculin shRNA (h) Lentiviral Particles: sc-61774-V and Vasculin shRNA (m) Lentiviral Particles: sc-61775-V.

Molecular Weight of Vasculin: 45 kDa.

Positive Controls: mouse liver extract: sc-2256, THP-1 cell lysate: sc-2238 or A-10 cell lysate: sc-3806.

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.

RESEARCH USE

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