



## Vasorin (C-13): sc-47565

### BACKGROUND

Vasorin (SLITL2, slit-like 2 (*Drosophila*)) is a secreted type I membrane protein that participates in vertebrate axis patterning, axon guidance, and vessel development. Vasorin contains tandem leucine-rich repeats, an EGF-like motif and a fibronectin type III-like motif in the extracellular domain. Vasorin transcripts appear in aorta, with moderate expression in kidney and placenta. Vasorin directly binds to transforming growth factor (TGF)- $\beta$  and attenuates TGF- $\beta$  signaling *in vitro*. Down-regulation of vasorin expression contributes to neointimal formation after vascular injury and this mechanism modulates response to pathological stimuli in vessel walls. Subsequently, vasorin is a potential therapeutic target for vascular fibroproliferative disorders.

### REFERENCES

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3. Bertolino, P., Deckers, M., Lebrin, F. and ten Dijke, P. 2005. TGF $\beta$  signal transduction in angiogenesis and vascular disorders. *Chest* 128: 585-590.
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5. Ghosh, J., Murphy, M.O., Turner, N., Khwaja, N., Halka, A., Kilty, C.M. and Walker, M.G. 2005. The role of TGF $\beta$ 1 in the vascular system. *Cardiovasc. Pathol.* 14: 28-36.
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### CHROMOSOMAL LOCATION

Genetic locus: VASN (human) mapping to 16p13.3; Vasn (mouse) mapping to 16 A1.

### SOURCE

Vasorin (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Vasorin of human origin.

### PRODUCT

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

Blocking peptide available for competition studies, sc-47565 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### RESEARCH USE

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

### APPLICATIONS

Vasorin (C-13) is recommended for detection of Vasorin 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).

Suitable for use as control antibody for Vasorin siRNA (h): sc-61778 and Vasorin siRNA (m): sc-61779.

Molecular Weight of Vasorin: 110 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.