

Vasorin (H-167) : sc-134551

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) β and attenuates TGF β signaling *in vitro*. Downregulation 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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2. Ikeda, Y., et al. 2004. Vasorin, a transforming growth factor β -binding protein expressed in vascular smooth muscle cells, modulates the arterial response to injury *in vivo*. *Proc. Natl. Acad. Sci. USA* 101: 10732-10737.
3. Bertolino, P., et al. 2005. Transforming growth factor β signal transduction in angiogenesis and vascular disorders. *Chest* 128: 585S-590S.
4. Chen, L., et al. 2005. Slit-like 2, a central neural and vascular morphogenesis. *Biochem. Biophys. Res. Commun.* 336: 364-371.
5. Ghosh, J., et al. 2005. The role of transforming growth factor β 1 in the vascular system. *Cardiovasc. Pathol.* 14: 28-36.
6. Ishisaki, A., et al. 2006. Novel ideas of gene therapy for atherosclerosis: modulation transduction of TGF β family. *Curr. Pharm. Des.* 12: 877-886.

CHROMOSOMAL LOCATION

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

SOURCE

Vasorin (H-167) is a rabbit polyclonal antibody raised against amino acids 434-600 mapping near the C-terminus of Vasorin 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.

STORAGE

Store at 4 $^{\circ}$ 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

Vasorin (H-167) 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), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Vasorin (H-167) is also recommended for detection of Vasorin in additional species, including equine.

Suitable for use as control antibody for Vasorin siRNA (h): sc-61778, Vasorin siRNA (m): sc-61779, Vasorin shRNA Plasmid (h): sc-61778-SH, Vasorin shRNA Plasmid (m): sc-61779-SH, Vasorin shRNA (h) Lentiviral Particles: sc-61778-V and Vasorin shRNA (m) Lentiviral Particles: sc-61779-V.

Molecular Weight of Vasorin: 110 kDa.

Positive Controls: mouse heart extract: sc-2254.

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.



Try **Vasorin (4G7): sc-517034**, our highly recommended monoclonal alternative to Vasorin (H-167).