

Vasohibin-1 (H-54): sc-134454

BACKGROUND

Angiogenesis is mainly regulated by the balance of several different pro-angiogenic stimulators, such as vascular endothelial growth factor (VEGF) and a diverse group of endogenous inhibitors that are extrinsic to endothelial cells. Vasohibin-1 is a secreted protein that is induced by a specific, self-regulating, feedback inhibition response to inhibit angiogenesis in an autocrine manner. It inhibits proliferation, migration, and network formation by endothelial cells. This function is specific for endothelial cells as it does not affect migration in other cell types. Vasohibin-1 is primarily expressed in endothelial of the brain and placental tissues with highest abundance in fetal organs. VEGF and fibroblast growth factor 2 upregulate the expression of Vasohibin-1. *In vitro*, Vasohibin-1 does not affect cancer cell proliferation, but does inhibit tumor growth and angiogenesis.

REFERENCES

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4. Katoh, Y. and Katoh, M. 2006. Comparative integromics on angiopoietin family members. *Int. J. Mol. Med.* 17: 1145-1149.
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6. Shen, J., et al. 2006. Vasohibin is upregulated by VEGF in the retina and suppresses VEGF receptor 2 and retinal neovascularization. *FASEB J.* 20: 723-725.
7. Shibuya, T., et al. 2006. Isolation and characterization of Vasohibin-2 as a homologue of VEGF-inducible endothelium-derived angiogenesis inhibitor Vasohibin. *Arterioscler Thromb. Vasc. Biol.* 26: 1051-1057.
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CHROMOSOMAL LOCATION

Genetic locus: VASH1 (human) mapping to 14q24.3; Vash1 (mouse) mapping to 12 D2.

SOURCE

Vasohibin-1 (H-54) is a rabbit polyclonal antibody raised against amino acids 81-134 mapping within an internal region of Vasohibin-1 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

Vasohibin-1 (H-54) is recommended for detection of Vasohibin-1 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).

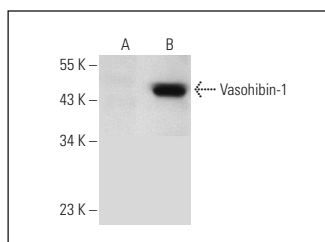
Vasohibin-1 (H-54) is also recommended for detection of Vasohibin-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Vasohibin-1 siRNA (h): sc-61776, Vasohibin-1 siRNA (m): sc-61777, Vasohibin-1 shRNA Plasmid (h): sc-61776-SH, Vasohibin-1 shRNA Plasmid (m): sc-61777-SH, Vasohibin-1 shRNA (h) Lentiviral Particles: sc-61776-V and Vasohibin-1 shRNA (m) Lentiviral Particles: sc-61777-V.

Molecular Weight of Vasohibin-1: 44 kDa.

Positive Controls: Vasohibin-1 (h): 293T Lysate: sc-116318.

DATA



Vasohibin-1 (H-54): sc-134454. Western blot analysis of Vasohibin-1 expression in non-transfected: sc-117752 (A) and human Vasohibin-1 transfected: sc-116318 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Yang, J., et al. 2013. TJ0711, a novel vasodilatory β -blocker, protects SHR rats against hypertension induced renal injury. *Am. J. Transl. Res.* 5: 279-290.

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.



Try **Vasohibin-1 (C-6): sc-365541**, our highly recommended monoclonal alternative to Vasohibin-1 (H-54).