

# Vasohibin-1 (K-15): sc-49779

## 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 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 is primarily expressed in endothelial of the brain and placental tissues with highest abundance in fetal organs. VEGF and fibroblast growth factor 2 up-regulate the expression of Vasohibin. *In vitro*, Vasohibin does not affect cancer cell proliferation, but does inhibit tumor growth and angiogenesis.

## REFERENCES

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## CHROMOSOMAL LOCATION

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

## SOURCE

Vasohibin-1 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Vasohibin 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.

Blocking peptide available for competition studies, sc-49779 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Vasohibin-1 (K-15) is recommended for detection of Vasohibin 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).

Vasohibin-1 (K-15) is also recommended for detection of Vasohibin 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.

## 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.

## RESEARCH USE

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

## PROTOCOLS

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