# VEGI (F-15): sc-23185



The Power to Question

## **BACKGROUND**

Vascular endothelial cell growth inhibitor (VEGI), also known as TNFRSF15 or TL1, is a member of the TNF superfamily. VEGI has a signaling pathway similar to TNF and is most likely a multifunctional cytokine. VEGI is found in brain, reproductive and late developmental stage embryonic tissues and is expressed predominantly in endothelial cells. VEGI is an angiogenesis inhibitor of the TNF family and functions in part by directly inhibiting endothelial cell proliferation. VEGI may act as an autocrine factor to induce apoptosis in endothelial cells via activation of multiple signaling pathways, including stress protein kinases and certain caspases.

## **REFERENCES**

- Tan, K.B., et al. 1997. Characterization of a novel TNF-like ligand and recently described TNF ligand and TNF receptor superfamily genes and their constitutive and inducible expression in hematopoietic and nonhematopoietic cells. Gene 204: 35-46.
- Haridas, V., et al. 1999. VEGI, a new member of the TNF family activates nuclear factor-κ B and c-Jun N-terminal kinase and modulates cell growth. Oncogene 18: 6496-6504.
- 3. Hu, S., et al. 1999. Characterization of TNFRSF19, a novel member of the tumor necrosis factor receptor superfamily. Genomics 62: 103-107.
- Zhai, Y., et al. 1999. Inhibition of angiogenesis and breast cancer xenograft tumor growth by VEGI, a novel cytokine of the TNF superfamily. Int. J. Cancer 82: 131-136.
- Zhai, Y., et al. 1999. VEGI, a novel cytokine of the tumor necrosis factor family, is an angiogenesis inhibitor that suppresses the growth of colon carcinomas in vivo. FASEB J. 13: 181-189.
- Yue, T.L., et al. 1999. TL1, a novel tumor necrosis factor-like cytokine, induces apoptosis in endothelial cells. Involvement of activation of stress protein kinases (stress-activated protein kinase and p38 mitogen-activated protein kinase) and caspase-3-like protease. J. Biol. Chem. 274: 1479-1486.

# **CHROMOSOMAL LOCATION**

Genetic locus: TNFSF15 (human) mapping to 9q32.

# SOURCE

VEGI (F-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of VEGI of human origin.

### **PRODUCT**

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

Blocking peptide available for competition studies, sc-23185 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

VEGI (F-15) is recommended for detection of VEGI of 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 VEGI siRNA (h): sc-39846, VEGI shRNA Plasmid (h): sc-39846-SH and VEGI shRNA (h) Lentiviral Particles: sc-39846-V.

Molecular Weight of VEGI: 22 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.

## **SELECT PRODUCT CITATIONS**

 Xiao, T., et al. 2010. VEGI-armed oncolytic adenovirus inhibits tumor neovascularization and directly induces mitochondria-mediated cancer cell apoptosis. Cell Res. 20: 367-378.

# **RESEARCH USE**

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

# **PROTOCOLS**

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



Try **VEGI (1A3):** sc-53975, our highly recommended monoclonal alternative to VEGI (F-15).

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