**BACKGROUND**

The onset of angiogenesis is believed to be an early event in tumorigenesis and may facilitate tumor progression and metastasis. Several growth factors with angiogenic activity have been described. These include fibroblast growth factor (FGF), platelet derived growth factor (PDGF) and vascular endothelial growth factor (VEGF). VEGF is a dimeric glycoprotein with structural homology to PDGF. Several variants of VEGF have been described that arise by alternative mRNA splicing. It has been speculated that VEGF may function as a tumor angiogenesis factor in vivo. Two additional proteins, designated VEGF-B and VEGF-C, share a significant degree of homology with VEGF. VEGF-B is abundantly expressed in heart and skeletal muscle and is frequently coexpressed with VEGF. VEGF-C binds to and specifically activates Flt-4 and Flk-1. The genes that encode VEGF-B and VEGF-C have been localized to chromosomes 11q13.1 and 4q34.3, respectively.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: VEGFC (human) mapping to 4q34.3; Vegfc (mouse) mapping to B1.3.

**SOURCE**

VEGF-C (E-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 103-137 near the N-terminus of VEGF-C of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

VEGF-C (E-6) is available conjugated to agarose (sc-374628 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374628 HRP), 200 µg/ml, for WB, HICP and ELISA; to either phycerythrin (sc-374628 PE), fluorescein (sc-374628 FITC), Alexa Fluor® 488 (sc-374628 AF488), Alexa Fluor® 546 (sc-374628 AF546), Alexa Fluor® 594 (sc-374628 AF594) or Alexa Fluor® 647 (sc-374628 AF647), 200 µg/ml, for WB (RGB), IF, HICP and FC; and to either Alexa Fluor® 680 (sc-374628 AF680) or Alexa Fluor® 790 (sc-374628 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

Blocking peptide available for competition studies, sc-374628 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein).

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**RESEARCH USE**

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

**APPLICATIONS**

VEGF-C (E-6) is recommended for detection of precursor and mature VEGF-C of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 VEGF-C siRNA (h): sc-39842, VEGF-C siRNA (m): sc-39843, VEGF-C shRNA Plasmid (h): sc-39842-SH, VEGF-C shRNA Plasmid (m): sc-39843-SH, VEGF-C shRNA (h) Lentiviral Particles: sc-39842-L and VEGF-C shRNA (m) Lentiviral Particles: sc-39843-V.

Molecular Weight of VEGF-C: 40/80 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237, MH-S whole cell lysate: sc-364785 or MCF7 whole cell lysate: sc-2206.

**DATA**

VVEGF-C (E-6): sc-374628. Near-infrared western blot analysis of VEGF-C expression in MCF7 (A), SK-MO-5 (B), MH-S (E), F9 (D) and RAW 264.7 (E) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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