

VCC-1 (M-50): sc-292020

BACKGROUND

VCC-1 (VEGF co-regulated chemokine 1), also known as Dcip1, DMC (dendritic cell and monocyte chemokine-like protein) or CXCL17 (C-X-C motif chemokine 17), is a 119 amino acid secreted protein that plays a role in angiogenesis. A member of the intercrine α (chemokine Cx) family, VCC-1 is expressed in skeletal muscle, trachea, lung, intestine and stomach, and is upregulated in duodenal mucosa of patients with acute cholera, as well as breast tumors. VCC-1 is considered a housekeeping chemokine for the movement of immature dendritic cells and non activated blood monocytes into tissues, and is thought to be involved in the innate immune response. The gene encoding VCC-1 maps to human chromosome 19q13.2 and mouse chromosome 7 A3.

REFERENCES

- Zhang, Z., et al. 2004. Signal peptide prediction based on analysis of experimentally verified cleavage sites. *Protein Sci.* 13: 2819-2824.
- Weinstein, E.J., et al. 2006. VCC-1, a novel chemokine, promotes tumor growth. *Biochem. Biophys. Res. Commun.* 350: 74-81.
- Zlotnik, A., et al. 2006. The chemokine and chemokine receptor superfamilies and their molecular evolution. *Genome Biol.* 7: 243.
- Pisabarro, M.T., et al. 2006. Cutting edge: novel human dendritic cell- and monocyte-attracting chemokine-like protein identified by fold recognition methods. *J. Immunol.* 176: 2069-2073.
- Iach, C.F., et al. 2007. Broad up-regulation of innate defense factors during acute cholera. *Infect. Immun.* 75: 2343-2350.
- Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611387. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Mu, X., et al. 2009. Overexpression of VCC-1 gene in human hepatocellular carcinoma cells promotes cell proliferation and invasion. *Acta Biochim. Biophys. Sin.* 41: 631-637.
- Hiraoka, N., et al. 2011. CXCL17 and ICAM2 are associated with a potential anti-tumor immune response in early intraepithelial stages of human pancreatic carcinogenesis. *Gastroenterology* 140: 310-321.

CHROMOSOMAL LOCATION

Genetic locus: Cxcl17 (mouse) mapping to 7 A3.

SOURCE

VCC-1 (M-50) is a rabbit polyclonal antibody raised against amino acids 70-119 mapping at the C-terminus of VCC-1 of mouse 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° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

VCC-1 (M-50) is recommended for detection of VCC-1 of mouse and rat 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).

Suitable for use as control antibody for VCC-1 siRNA (m): sc-155097, VCC-1 shRNA Plasmid (m): sc-155097-SH and VCC-1 shRNA (m) Lentiviral Particles: sc-155097-V.

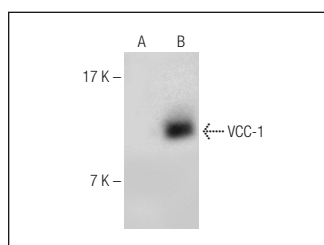
Molecular Weight of VCC-1: 14 kDa.

Positive Controls: VCC-1 (m): 293T Lysate: sc-127760.

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.

DATA



VCC-1 (M-50): sc-292020. Western blot analysis of VCC-1 expression in non-transfected: sc-117752 (A) and mouse VCC-1 transfected: sc-127760 (B) 293T whole cell lysates.

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.