

VCC-1 (B-3): sc-398842

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

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- 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.
- Flach, C.F., et al. 2007. Broad up-regulation of innate defense factors during acute cholera. *Infect. Immun.* 75: 2343-2350.
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CHROMOSOMAL LOCATION

Genetic locus: CXCL17 (human) mapping to 19q13.2.

SOURCE

VCC-1 (B-3) is a mouse monoclonal antibody raised against amino acids 24-66 mapping within an internal region of VCC-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

VCC-1 (B-3) is available conjugated to agarose (sc-398842 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398842 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398842 PE), fluorescein (sc-398842 FITC), Alexa Fluor[®] 488 (sc-398842 AF488), Alexa Fluor[®] 546 (sc-398842 AF546), Alexa Fluor[®] 594 (sc-398842 AF594) or Alexa Fluor[®] 647 (sc-398842 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-398842 AF680) or Alexa Fluor[®] 790 (sc-398842 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

VCC-1 (B-3) is recommended for detection of VCC-1 of human origin by Western Blotting (starting dilution 1:100, 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 (h): sc-97107, VCC-1 shRNA Plasmid (h): sc-97107-SH and VCC-1 shRNA (h) Lentiviral Particles: sc-97107-V.

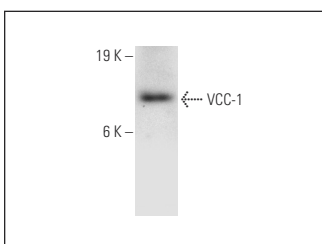
Molecular Weight of VCC-1: 14 kDa.

Positive Controls: human lung extract: sc-363767.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



VCC-1 (B-3): sc-398842. Western blot analysis of VCC-1 expression in human lung tissue extract.

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 for detailed protocols and support products.