

VMAC (C-15): sc-139104

BACKGROUND

VMAC (vimentin-type intermediate filament associated coiled-coil protein) is a 169 amino acid cytoplasmic protein that colocalizes with vimentin-type intermediate filaments. It is thought that vimentin-type intermediate filaments play an important role in cytoskeletal organization and cell morphology. VMAC consists of a coiled-coil domain in its N-terminal region and a PDZ-binding tetrapeptide consensus motif in its C-terminal region. Abundant in kidney, VMAC is encoded by a gene located on human chromosome 19p13.3. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc α receptors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VMAC (human) mapping to 19p13.3.

SOURCE

VMAC (C-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of VMAC of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139104 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VMAC (C-15) is recommended for detection of VMAC of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for VMAC siRNA (h): sc-97359, VMAC shRNA Plasmid (h): sc-97359-SH and VMAC shRNA (h) Lentiviral Particles: sc-97359-V.

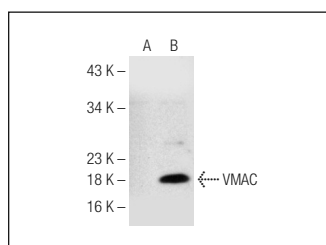
Molecular Weight of VMAC: 19 kDa.

Positive Controls: VMAC (h): 293T Lysate: sc-112001.

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



VMAC (C-15): sc-139104. Western blot analysis of VMAC expression in non-transfected: sc-117752 (A) and human VMAC transfected: sc-112001 (B) 293T whole cell lysates.

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 or our catalog for detailed protocols and support products.