

VEZF1 (H-166): sc-98278

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. VEZF1 (vascular endothelial zinc finger 1), also known as ZNF161 or DB1, is a nuclear localizing zinc-finger protein belonging to the Krüppel C₂H₂-type zinc-finger family. Expressed throughout the body with the highest level of expression found in the kidneys and skeletal muscle, VEZF1 is an endothelial transcription factor that regulates ET-1 (endothelin-1) promoter expression. Through its interaction with the CT/GC-rich region of the ET-1 promoter, VEZF1 helps to regulate proper assembly of the cardiovascular system during early development by activating the expression of various genes found in the vascular endothelium.

REFERENCES

1. Koyano-Nakagawa, N., et al. 1994. Molecular cloning of a novel human cDNA encoding a zinc-finger protein that binds to the Interleukin-3 promoter. *Mol. Cell. Biol.* 14: 5099-5107.
2. Lebowitz, P.F., et al. 1999. Functional interaction between Rho B and the transcription factor DB1. *Cell Adhes. Commun.* 6: 277-287.
3. Xiong, J.W., et al. 1999. VEZF1: A Zn finger transcription factor restricted to endothelial cells and their precursors. *Dev. Biol.* 206: 123-141.
4. Aitsebaomo, J., et al. 2001. VEZF1/DB1 is an endothelial cell-specific transcription factor that regulates expression of the endothelin-1 promoter. *J. Biol. Chem.* 276: 39197-39205.

CHROMOSOMAL LOCATION

Genetic locus: VEZF1 (human) mapping to 17q22; Vezf1 (mouse) mapping to 11 C.

SOURCE

VEZF1 (H-166) is a rabbit polyclonal antibody raised against amino acids 351-516 mapping at the C-terminus of VEZF1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98278 X, 200 µg/0.1 ml.

STORAGE

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

PROTOCOLS

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

APPLICATIONS

VEZF1 (H-166) is recommended for detection of VEZF1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

VEZF1 (H-166) is also recommended for detection of VEZF1 in additional species, including equine, canine, bovine, porcine and avian.

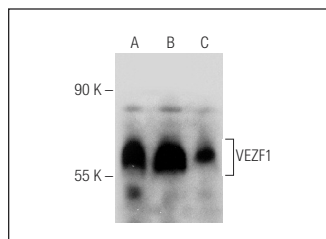
Suitable for use as control antibody for VEZF1 siRNA (h): sc-94046, VEZF1 siRNA (m): sc-155100, VEZF1 shRNA Plasmid (h): sc-94046-SH, VEZF1 shRNA Plasmid (m): sc-155100-SH, VEZF1 shRNA (h) Lentiviral Particles: sc-94046-V and VEZF1 shRNA (m) Lentiviral Particles: sc-155100-V.

VEZF1 (H-166) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

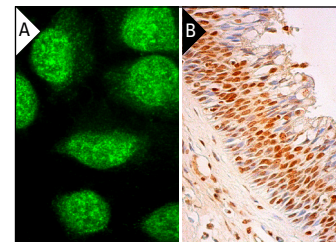
Molecular Weight of VEZF1: 56 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SJRH30 cell lysate: sc-2287 or Caki-1 cell lysate: sc-2224.

DATA



VEZF1 (H-166): sc-98278. Western blot analysis of VEZF1 expression in HeLa (A), SJRH30 (B) and Caki-1 (C) whole cell lysates.



VEZF1 (H-166): sc-98278. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing nuclear staining of respiratory epithelial cells (B).

RESEARCH USE

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

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Try **VEZF1 (B-4): sc-365560** or **VEZF1 (D-8): sc-365566**, our highly recommended monoclonal alternatives to VEZF1 (H-166).