

Evi-1 (C-20)-R: sc-8707-R

BACKGROUND

The Evi-1 proto-oncogene contains two zinc-finger domains, the second of which has been shown to be essential for transactivation of the c-Fos promoter and AP-1 activation. The first zinc-finger domain binds to Smad3, suppressing its activity and inhibiting TGF- β signaling. The t(3;21)(q26;q22) chromosomal translocation produces a chimeric transcription factor, AML-1/Evi-1, that appears to suppress the transactivation of AML-1, which is a stimulator of myeloid cell differentiation. Inappropriate Evi-1 gene expression in hematopoietic cells has been shown to be associated with acute myelogenous leukemia (AML) and myelodysplastic syndromes.

CHROMOSOMAL LOCATION

Genetic locus: EVI1 (human) mapping to 3q26.2; Evi1 (mouse) mapping to 3 A3.

SOURCE

Evi-1 (C-20)-R is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of Evi-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-8707 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-8707 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Evi-1 (C-20)-R is recommended for detection of Evi-1 of mouse and human 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).

Evi-1 (C-20)-R is also recommended for detection of Evi-1 in additional species, including equine and canine.

Suitable for use as control antibody for Evi-1 siRNA (h): sc-37873, Evi-1 siRNA (m): sc-37874, Evi-1 shRNA Plasmid (h): sc-37873-SH, Evi-1 shRNA Plasmid (m): sc-37874-SH, Evi-1 shRNA (h) Lentiviral Particles: sc-37873-V and Evi-1 shRNA (m) Lentiviral Particles: sc-37874-V.

Evi-1 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

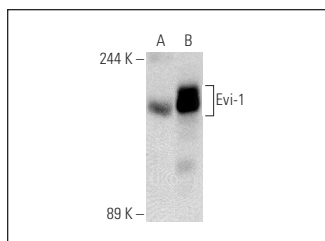
Molecular Weight of Evi-1: 145 kDa.

Positive Controls: Evi-1 (h): 293T Lysate: sc-177200, CCRF-CEM cell lysate: sc-2225 or Hep G2 cell lysate: sc-2227.

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



Evi-1 (C-20)-R: sc-8707-R. Western blot analysis of Evi-1 expression in non-transfected: sc-117752 (A) and human Evi-1 transfected: sc-177200 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Ishibashi, J., et al. 2012. An Evi-1-C/EBP β complex controls peroxisome proliferator-activated receptor γ 2 gene expression to initiate white fat cell differentiation. *Mol. Cell. Biol.* 32: 2289-2299.
- Albers, C.A., et al. 2012. Compound inheritance of a low-frequency regulatory SNP and a rare null mutation in exon-junction complex subunit RBM8A causes TAR syndrome. *Nat. Genet.* 44: 435-439, S1-S2.

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.


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Try **Evi-1 (H-8): sc-515456** or **Evi-1 (2331C1a1): sc-130025**, our highly recommended monoclonal alternatives to Evi-1 (C-20).