

Evi-1 (N-20): sc-8706

BACKGROUND

The Evi-1 proto-oncogene contains two zinc finger domains, the second of which is essential for transactivation of the c-Fos promoter and for 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 hemato-poietic cells has been shown to be associated with acute myelogenous leukemia (AML) and myelodysplastic syndromes.

REFERENCES

1. Kreider, B.L., et al. 1993. Loss of erythropoietin responsiveness in erythroid progenitors due to expression of the Evi-1 myeloid-transforming gene. *Proc. Natl. Acad. Sci. USA* 90: 6454-6458.
2. Tanaka, T., et al. 1994. Evi-1 raises AP-1 activity and stimulates c-fos promoter transactivation with dependence on the second zinc finger domain. *J. Biol. Chem.* 269: 24020-24026.

CHROMOSOMAL LOCATION

Genetic locus: MECOM (human) mapping to 3q26.2.

SOURCE

Evi-1 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-8706 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-8706 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Evi-1 (N-20) is recommended for detection of Evi-1 of 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 (N-20) is also recommended for detection of Evi-1 in additional species, including equine, canine, bovine, porcine and avian.

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

Evi-1 (K-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

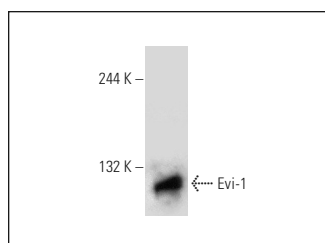
Molecular Weight of Evi-1: 145 kDa.

Positive Controls: Hep G2 whole cell lysate: sc-2227 or CCRF-CEM cell lysate: sc-2225.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Evi-1 (N-20): sc-8706. Western blot analysis of Evi-1 expression in Hep G2 whole cell lysate.

SELECT PRODUCT CITATIONS

1. Li, Y. and Zhang, C. 2012. The relationship between Evi-1 expression and mouse ovarian follicular development. *Acta Histochem.* 114: 79-86.

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.


 MONOS
Satisfaction
Guaranteed

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