EVI2B (K-14): sc-131928



The Power to Question

BACKGROUND

EVI2B (Ecotropic viral integration site 2B protein homolog) is a 448 amino acid protein which functions in the differentiation of melanocytes and keratinocytes. Lying within an intron of the Neurofibromin gene, the gene encoding EVI2B is transcribed from the telomere toward the centromere, which is opposite the transcription direction of the Neurofibromin gene. EVI2B is a single-pass transmembrane protein containing an extracellular domain with four glycosylation sites, an N-terminal signal peptide, a cytoplasmic hydrophilic domain and a hydrophobic transmembrane domain. Due to evidence suggesting that the gene encoding the mouse homolog lies within a viral integration site that has been identitified in retrovirus-induced myeloid tumors, the gene encoding EVI2B may function as an oncogene in these tumor types. With expression in peripheral blood mononuclear cells, fibroblasts, bone marrow and EBV-transformed lymphoblastoid cell lines, EVI2B is implicated in leukemogenesis.

REFERENCES

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- Jenne, D.E., et al. 2003. Complete physical map and gene content of the human NF1 tumor suppressor region in human and mouse. Genes Chromosomes Cancer 37: 111-120.

CHROMOSOMAL LOCATION

Genetic locus: EVI2B (human) mapping to 17q11.2; Evi2b (mouse) mapping to 11 B5.

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.

SOURCE

EVI2B (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of EVI2B of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-131928 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EVI2B (K-14) is recommended for detection of EVI2B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other EVI family members.

Suitable for use as control antibody for EVI2B siRNA (h): sc-93673, EVI2B siRNA (m): sc-144963, EVI2B shRNA Plasmid (h): sc-93673-SH, EVI2B shRNA Plasmid (m): sc-144963-SH, EVI2B shRNA (h) Lentiviral Particles: sc-93673-V and EVI2B shRNA (m) Lentiviral Particles: sc-144963-V.

Molecular Weight of EVI2B: 49 kDa.

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) 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.

RESEARCH USE

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

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