SANTA CRUZ BIOTECHNOLOGY, INC.

EVI5 (D-14): sc-160055

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The Power to Question

BACKGROUND

EVI5 (ecotropic viral integration site 5 protein homolog), also known as NB4S (neuroblastoma stage 4S gene protein), is an 810 amino acid protein that contains one Rab-GAP TBC domain and exists in both monomeric and dimeric form. Localizing to the nucleus and cytoplasm, EVI5 is expressed in various cell lines, as well as in brain and adrenal tissue. EVI5 acts as an important regulator of cell cycle progression by stabilizing Emi1 and promoting cyclin-A accumulation, and may also play a role in cytokinesis. EVI5 interacts with α- and γ-tubulin and the chromosome passenger complex (CPC), and undergoes phosphorylation and ubiquitination. EVI5 degradation during prophase is ubiquitin dependent, while phosphorylation is required for degradation during mitosis. The gene encoding EVI5 maps to human chromosome 1p22.1 and mouse chromosome 5 F. Depletion of EVI5 as a result of RNA interference results in cell cycle arrest and mitotic abnormalities. EVI5 may also be a potential at-risk gene for multiple sclerosis (MS).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EVI5 (human) mapping to 1p22.1; Evi5 (mouse) mapping to 5 F.

RESEARCH USE

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

SOURCE

EVI5 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EVI5 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.

Blocking peptide available for competition studies, sc-160055 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EVI5 (D-14) is recommended for detection of EVI5 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.

EVI5 (D-14) is also recommended for detection of EVI5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for EVI5 siRNA (h): sc-78845, EVI5 siRNA (m): sc-144964, EVI5 shRNA Plasmid (h): sc-78845-SH, EVI5 shRNA Plasmid (m): sc-144964-SH, EVI5 shRNA (h) Lentiviral Particles: sc-78845-V and EVI5 shRNA (m) Lentiviral Particles: sc-144964-V.

Molecular Weight of EVI5: 93 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.

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.