SANTA CRUZ BIOTECHNOLOGY, INC.

Zic2 (C-14): sc-28153

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Zic2 (zinc finger protein of the cerebellum 2) is a C_2H_2 zinc finger transcription factor that influences forebrain development. Zic2 is a transcriptional repressor and may regulate tissue specific expression of dopamine receptor D1. Zic2 transcript is abundant in the dorsal neural tube/spinal cord, and in the hindbrain. A polyhistidine tract polymorphism in this gene may be associated with increased risk of neural tube defects. This gene is closely linked to a gene encoding zinc finger protein of the cerebellum 5, a related family member on chromosome 13.

CHROMOSOMAL LOCATION

Genetic locus: ZIC2 (human) mapping to 13q32.3; Zic2 (mouse) mapping to 14 E5.

SOURCE

Zic2 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Zic2 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-28153 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-28153 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.

APPLICATIONS

Zic2 (C-14) is recommended for detection of Zic2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Zic2 (C-14) is also recommended for detection of Zic2 in additional species, including porcine.

Suitable for use as control antibody for Zic2 siRNA (h): sc-45881, Zic2 siRNA (m): sc-45882, Zic2 shRNA Plasmid (h): sc-45881-SH, Zic2 shRNA Plasmid (m): sc-45882-SH, Zic2 shRNA (h) Lentiviral Particles: sc-45881-V and Zic2 shRNA (m) Lentiviral Particles: sc-45882-V.

Molecular Weight of Zic2: 70 kDa.

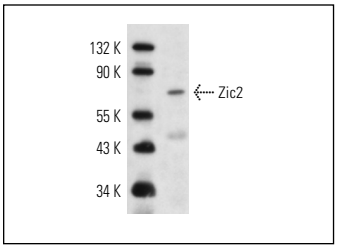
Positive Controls: NIH/3T3 nuclear extract: sc-2138.

Zic2 (C-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

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



Zic2 (C-14): sc-28153. Western blot analysis of Zic2 expression in NIH/3T3 nuclear extract.

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 **Zic2 (3C12): sc-517055**, our highly recommended monoclonal alternative to Zic2 (C-14).