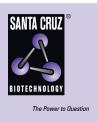
SANTA CRUZ BIOTECHNOLOGY, INC.

CCDC85B (S-14): sc-167420



BACKGROUND

CCDC85B (coiled-coil domain-containing protein 85B), also known as DIPA (δ -interacting protein A), is a 202 amino acid nuclear and cytoplasmic protein that belongs to the CCDC85 family. As a transcriptional repressor, CCDC85B may inhibit the activity of CTNNB1 in a TP53-dependent manner and thus regulate cell growth. CCDC85B may also play a role in adipocyte differentiation, negatively regulating mitotic clonal expansion. While it is up-regulated by doxorubicin, CCDC85B also interacts with a number of proteins including C/EBP β , C/EBP δ , MSP58, TCF-4 and HDAg (viral phosphoprotein hepatitis δ antigen). The interaction between CCDC85B and HDAg affects viral genomic replication in intact cells. The gene that encodes CCDC85B consists of approximately 1,232 bases and maps to human chromosome 11q13.1.

REFERENCES

- 1. Brazas, R. and Ganem, D. 1996. A cellular homolog of hepatitis δ antigen: implications for viral replication and evolution. Science 274: 90-94.
- 2. Long, M., de Souza, S.J. and Gilbert, W. 1997. δ -interacting protein A and the origin of hepatitis δ antigen. Science 276: 824-825.
- 3. Online Mendelian Inheritance in Man, OMIM™. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 605360. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 4. Bezy, O., Elabd, C., Cochet, O., Petersen, R.K., Kristiansen, K., Dani, C., Ailhaud, G. and Amri, E.Z. 2005. δ -interacting protein A, a new inhibitory partner of CCAAT/enhancer-binding protein β , implicated in adipocyte differentiation. J. Biol. Chem. 280: 11432-11438.
- Du, X., Wang, Q., Hirohashi, Y. and Greene, M.I. 2006. DIPA, which can localize to the centrosome, associates with p78/MCRS1/MSP58 and acts as a repressor of gene transcription. Exp. Mol. Pathol. 81: 184-190.
- Iwai, A., Hijikata, M., Hishiki, T., Isono, O., Chiba, T. and Shimotohno, K. 2008. Coiled-coil domain containing 85B suppresses the β-catenin activity in a p53-dependent manner. Oncogene 27: 1520-1526.
- Bianchi, D.W., Maron, J.L. and Johnson, K.L. 2010. Insights into fetal and neonatal development through analysis of cell-free RNA in body fluids. Early Hum. Dev. 86: 747-752.

CHROMOSOMAL LOCATION

Genetic locus: CCDC85B (human) mapping to 11q13.1; Ccdc85b (mouse) mapping to 19 A.

SOURCE

CCDC85B (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CCDC85B 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-167420 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC85B (S-14) is recommended for detection of CCDC85B 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 CCDC85A.

CCDC85B (S-14) is also recommended for detection of CCDC85B in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CCDC85B siRNA (h): sc-96589, CCDC85B siRNA (m): sc-142150, CCDC85B shRNA Plasmid (h): sc-96589-SH, CCDC85B shRNA Plasmid (m): sc-142150-SH, CCDC85B shRNA (h) Lentiviral Particles: sc-96589-V and CCDC85B shRNA (m) Lentiviral Particles: sc-142150-V.

Molecular Weight of CCDC85B: 22 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) Immunofluo-rescence: 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.

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.