SANTA CRUZ BIOTECHNOLOGY, INC.

ZC3HDC3 (C-18): sc-98215

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The zinc finger CCCH domain-containing protein 3 (ZC3HDC3) is a 948 amino acid protein that contains 5 C3H1-type zinc finger domains. ZC3HDC3 plays a regulatory role in nuclear adenylation and export. Two isoforms of ZC3H13 exists as a result of alternative splicing events. The gene encoding ZC3H13 maps to chromosome 8, which encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and typically associated with a poor prognosis. Portions of chromosome 8 have been linked to schizophrenia and bipolar disorder. Trisomy 8, also known as Warkany syndrome 2, most often results in early miscarriage but is occasionally seen in a mosaic form in surviving patients who suffer to a varying degree from a number of symptoms including retarded mental and motor development, and certain facial and developmental defects.

REFERENCES

1. Wildenauer, D.B. and Schwab, S.G. 1999. Chromosomes 8 and 10 workshop. Am. J. Med. Genet. 88: 239-243.
2. Kashino, G., et al. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. Biochem. Biophys. Res. Commun. 289: 111-115.
3. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. Hum. Genet. 110: 64-67.
4. McQueen, M.B., et al. 2005. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. Am. J. Hum. Genet. 77: 582-595.
5. Agrelo, R., et al. 2006. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. Proc. Natl. Acad. Sci. USA 103: 8822-8827.
6. Mossafa, H., et al. 2006. Non-Hodgkin's lymphomas with Burkitt-like cells are associated with c-Myc amplification and poor prognosis. Leuk. Lymphoma 47: 1885-1893.

CHROMOSOMAL LOCATION

Genetic locus: ZC3H3 (human) mapping to 8q24.3; Zc3h3 (mouse) mapping to 15 D3.

SOURCE

ZC3HDC3 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZC3HDC3 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-98215 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-98215 X, 100 µg/0.1 ml.

APPLICATIONS

ZC3HDC3 (C-18) is recommended for detection of ZC3HDC3 of mouse 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).

Suitable for use as control antibody for ZC3HDC3 siRNA (h): sc-77847, ZC3HDC3 siRNA (m): sc-155470, ZC3HDC3 shRNA Plasmid (h): sc-77847-SH, ZC3HDC3 shRNA Plasmid (m): sc-155470-SH, ZC3HDC3 shRNA (h) Lentiviral Particles: sc-77847-V and ZC3HDC3 shRNA (m) Lentiviral Particles: sc-155470-V.

ZC3HDC3 (C-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

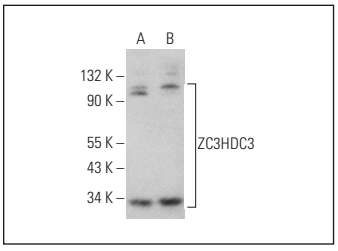
Molecular Weight of ZC3HDC3 isoform 1/2: 102/36 kDa.

Positive Controls: ZC3HDC3 (h): 293T Lysate: sc-114556, HeLa whole cell lysate: sc-2200 or MCF7 whole cell lysate: sc-2206.

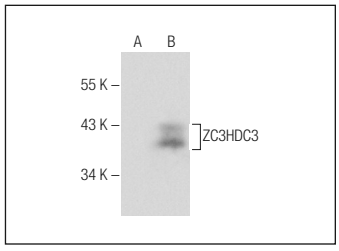
RECOMMENDED SECONDARY REAGENTS

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



ZC3HDC3 (C-18): sc-98215. Western blot analysis of ZC3HDC3 expression in HeLa (**A**) and MCF7 (**B**) whole cell lysates.



ZC3HDC3 (C-18): sc-98215. Western blot analysis of ZC3HDC3 expression in non-transfected: sc-117752 (**A**) and human ZC3HDC3 transfected: sc-114556 (**B**) 293T whole cell lysates.

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.