

ZC3HDC3 (B-10): sc-515236

BACKGROUND

The zinc finger CCCH domain-containing protein 3 (ZC3HDC3) is a 948 amino acid protein that contains five 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

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- 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.
- 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.
- 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.
- 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 (B-10) is a mouse monoclonal antibody raised against amino acids 671-756 mapping near the C-terminus of ZC3HDC3 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZC3HDC3 (B-10) is available conjugated to agarose (sc-515236 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515236 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515236 PE), fluorescein (sc-515236 FITC), Alexa Fluor® 488 (sc-515236 AF488), Alexa Fluor® 546 (sc-515236 AF546), Alexa Fluor® 594 (sc-515236 AF594) or Alexa Fluor® 647 (sc-515236 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515236 AF680) or Alexa Fluor® 790 (sc-515236 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

ZC3HDC3 (B-10) is recommended for detection of ZC3HDC3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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.

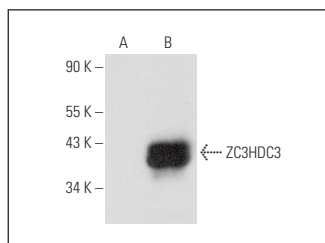
Molecular Weight of ZC3HDC3 isoform 1/2: 102/36 kDa.

Positive Controls: ZC3HDC3 (h): 293T Lysate: sc-114556.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ZC3HDC3 (B-10): sc-515236. 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.

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