

ZCCHC2 (G-19): sc-85222

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZCCHC2 (zinc finger CCHC domain-containing protein 2) is a 1,178 amino acid protein that contains one CCHC-type zinc finger, suggesting a role in transcriptional regulation. The gene encoding ZCCHC10 maps to human chromosome 18, which encodes over 300 genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, and erythropoietic protoporphyria. Translocation between chromosome 18 and 14 is also the most common translocation in cancers and occurs in follicular lymphomas.

REFERENCES

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2. Esterling, L.E., Cox Matise, T., Sanders, A.R., Yoshikawa, T., Overhauser, J., Gershon, E.S., Moskowitz, M.T. and Detera-Wadleigh, S.D. 1997. An integrated physical map of 18p11.2: a susceptibility region for bipolar disorder. *Mol. Psychiatry* 2: 501-504.
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4. Petek, E., Pertl, B., Tschernigg, M., Bauer, M., Mayr, J., Wagner, K. and Kroisel, P.M. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.

CHROMOSOMAL LOCATION

Genetic locus: ZCCHC2 (human) mapping to 18q21.33; Zcchc2 (mouse) mapping to 1 E2.1.

SOURCE

ZCCHC2 (G-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of ZCCHC2 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85222 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-85222 X, 100 µg/0.1 ml.

RESEARCH USE

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

APPLICATIONS

ZCCHC2 (G-19) is recommended for detection of ZCCHC2 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); non cross-reactive with ZCCHC11.

ZCCHC2 (G-19) is also recommended for detection of ZCCHC2 in additional species, including equine, canine and avian.

Suitable for use as control antibody for ZCCHC2 siRNA (h): sc-76952, ZCCHC2 siRNA (m): sc-155477, ZCCHC2 shRNA Plasmid (h): sc-76952-SH, ZCCHC2 shRNA Plasmid (m): sc-155477-SH, ZCCHC2 shRNA (h) Lentiviral Particles: sc-76952-V and ZCCHC2 shRNA (m) Lentiviral Particles: sc-155477-V.

ZCCHC2 (G-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

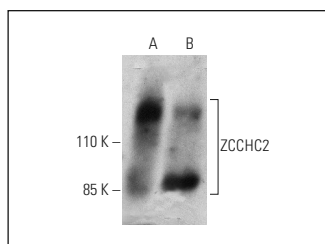
Molecular Weight of ZCCHC2: 126 kDa.

Positive Controls: human brain tissue extract or human skeletal muscle extract: sc-363776.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZCCHC2 (G-19): sc-85222. Western blot analysis of ZCCHC2 expression in human brain (A) and human skeletal muscle (B) tissue extracts.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.