SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF217 (N-20): sc-55354

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. The majority of zinc-finger proteins contain a krüppel-type DNA-binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF217, also known as ZABC1, is a zinc-finger protein belonging to the krüppel C2H2-type zinc-finger protein family. It localizes to the nucleus and may play a role in transcriptional repression of a variety of genes through the recruitment of corepressor complexes containing proteins such as CtBP, HDAC1 and HDAC2. In addition, ZNF-217 participates in cell differentiation and appears to function as an oncogene. Expression of ZNF217 is amplified in various tumors and overexpression of the protein can attenuate apoptotic signals and lead to epithelial cell immortalization.

REFERENCES

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3. Sarraf, S., et al. 2005. The human ovarian teratocarcinoma cell line PA-1 demonstrates a single translocation: analysis with fluorescence *in situ* hybridization, spectral karyotyping, and bacterial artificial chromosome microarray. Cancer Genet. Cytogenet. 161: 63-69.
4. Shimada, M., et al. 2005. Detection of Her2/Neu, c-Myc and ZNF217 gene amplification during breast cancer progression using fluorescence *in situ* hybridization. Oncol. Rep. 13: 633-641.
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6. Quinlan, K.G., et al. 2007. Amplification of zinc-finger gene 217 (ZNF217) and cancer: when good fingers go bad. Biochim. Biophys. Acta 1775: 333-340.
7. Li, P., et al. 2007. Multiple roles of the candidate oncogene ZNF217 in ovarian epithelial neoplastic progression. Int. J. Cancer 120: 1863-1873.
8. Krig, S.R., et al. 2007. Identification of genes directly regulated by the oncogene ZNF217 using chromatin immunoprecipitation (ChIP)-chip assays. J. Biol. Chem. 282: 9703-9712.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF217 (human) mapping to 20q13.2; Zfp217 (mouse) mapping to 2 H3.

SOURCE

ZNF217 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ZNF217 of mouse 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-55354 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

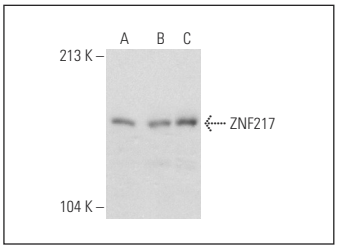
ZNF217 (N-20) is recommended for detection of ZNF217 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF217 siRNA (h): sc-63249, ZNF217 siRNA (m): sc-63250, ZNF217 shRNA Plasmid (h): sc-63249-SH, ZNF217 shRNA Plasmid (m): sc-63250-SH, ZNF217 shRNA (h) Lentiviral Particles: sc-63249-V and ZNF217 shRNA (m) Lentiviral Particles: sc-63250-V.

Molecular Weight of ZNF217 doublet: 120/130 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, DU 145 cell lysate: sc-2268 or MDA-MB-231 cell lysate: sc-2232.

DATA



ZNF217 (N-20): sc-55354. Western blot analysis of ZNF217 expression in MDA-MB-231 (**A**) and DU145 (**B**) whole cell lysates and K-562 nuclear extract (**C**).

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.