SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF232 (N-14): sc-132157

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. ZNF232, also known as Zinc finger and SCAN domain-containing protein 11, is a 417 amino acid protein belonging to the Krüppel C_2H_2-type zinc-finger protein family. Localized to the nucleus, ZNF232 contains one SCAN box domain and five C_2H_2-type zinc fingers. Due to the presence of these domains, ZNF232 may be involved in transcriptional regulation. Ubiquitously expressed, ZNF232 is present at high levels in testis, liver and ovary. ZNF232 exists as two isoforms produced by alternative splicing.

REFERENCES

1. Bellefroid, E.J., Poncelet, D.A., Lecocq, P.J., Revelant, O. and Martial, J.A. 1991. The evolutionarily conserved Krüppel-associated box domain defines a subfamily of eukaryotic multifingered proteins. Proc. Natl. Acad. Sci. USA 88: 3608-3612.
2. Pengue, G., Calabrò, V., Bartoli, P.C., Pagliuca, A. and Lania, L. 1994. Repression of transcriptional activity at a distance by the evolutionarily conserved KRAB domain present in a subfamily of zinc-finger proteins. Nucleic Acids Res. 22: 2908-2914.
3. Margolin, J.F., Friedman, J.R., Meyer, W.K., Vissing, H., Thiesen, H.J. and Rauscher, F.J. 1994. Krüppel-associated boxes are potent transcriptional repression domains. Proc. Natl. Acad. Sci. USA 91: 4509-4513.
4. Williams, A.J., Blacklow, S.C. and Collins, T. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. Mol. Cell. Biol. 19: 8526-8535.
5. Mavrogiannis, L.A., Argyrokastritis, A., Tzitzikas, N., Dermitzakis, E., Sarafidou, T., Patsalis, P.C. and Moschonas, N.K. 2001. ZNF232: structure and expression analysis of a novel human C_2H_2 zinc-finger gene, member of the SCAN/LeR domain subfamily. Biochim. Biophys. Acta 1518: 300-305.
6. Shannon, M., Hamilton, A.T., Gordon, L., Branscomb, E. and Stubbs, L. 2003. Differential expansion of zinc-finger transcription factor loci in homologous human and mouse gene clusters. Genome Res. 13: 1097-1110.

CHROMOSOMAL LOCATION

Genetic locus: ZNF232 (human) mapping to 17p13.2.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SOURCE

ZNF232 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNF232 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-132157 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF232 (N-14) is recommended for detection of ZNF232 isoforms Long and Short of 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 other ZNF family members .

Suitable for use as control antibody for ZNF232 siRNA (h): sc-93736, ZNF232 shRNA Plasmid (h): sc-93736-SH and ZNF232 shRNA (h) Lentiviral Particles: sc-93736-V.

Molecular Weight of ZNF232: 48 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) 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.

RESEARCH USE

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