SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF57 (N-15): sc-324674

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. ZNF57 (zinc finger protein 57), also known as ZNF424 (zinc finger protein 424) or ZFP57, is a 555 amino acid member of the Krüppel C_2H_2-type zinc finger protein family and is thought to be involved in transcriptional regulation, specifically affecting the expression of peripheral nervous system-related genes. Localized to the nucleus, ZNF57 contains one KRAB domain and 13 C_2H_2-type zinc fingers through which it may convey its DNA, RNA and protein binding capabilities.

REFERENCES

1. Bray, P., et al. 1991. Characterization and mapping of human genes encoding zinc finger proteins. Proc. Natl. Acad. Sci. USA 88: 9563-9567.
2. Lichter, P., et al. 1992. Clustering of C2-H2 zinc finger motif sequences within telomeric and fragile site regions of human chromosomes. Genomics 13: 999-1007.
3. Okazaki, S., et al. 1994. A novel nuclear protein with zinc fingers down-regulated during early mammalian cell differentiation. J. Biol. Chem. 269: 6900-6907.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 612192. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
5. Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C_2H_2 zinc finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39.
6. Alonso, M.B., et al. 2004. Identification and characterization of ZFP-57, a novel zinc finger transcription factor in the mammalian peripheral nervous system. J. Biol. Chem. 279: 25653-25664.

CHROMOSOMAL LOCATION

Genetic locus: ZNF57 (human) mapping to 19p13.3.

SOURCE

ZNF57 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNF57 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-324674 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ZNF57 (N-15) is recommended for detection of ZNF57 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 zinc finger proteins.

Suitable for use as control antibody for ZNF57 siRNA (h): sc-97220, ZNF57 shRNA Plasmid (h): sc-97220-SH and ZNF57 shRNA (h) Lentiviral Particles: sc-97220-V.

Molecular Weight of ZNF57: 64 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.

PROTOCOLS

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