



ZNF750 (A-13): sc-132596

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. Zinc finger protein 750 (ZNF750) is a 723 amino acid member of the Krüppel C₂H₂-type zinc finger protein family. Localized to the nucleus, ZNF750 contains one conserved C₂H₂ zinc finger domain and is expressed in the skin, lungs, prostate, placenta and thymus. ZNF750 is also expressed in primary human keratinocytes but not in fibroblasts. Mutations in the gene encoding ZNF750 cause seborrhea-like dermatitis with psoriasiform, a condition characterized by a chronic and diffuse rash on the face and hyperkeratosis of skin over the elbows, soles, knees and palms.

REFERENCES

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3. Abrink, M., et al. 1995. Isolation of cDNA clones for 42 different Krüppel-related zinc finger proteins expressed in the human monoblast cell line U-937. *DNA Cell Biol.* 14: 125-136.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 610226. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Durand, S., et al. 2003. Identification of multiple differentially expressed messenger RNAs in normal and pathological trophoblast. *Placenta* 24: 209-218.
6. Birnbaum, R.Y., et al. 2006. Seborrhea-like dermatitis with psoriasiform elements caused by a mutation in ZNF750, encoding a putative C₂H₂ zinc finger protein. *Nat. Genet.* 38: 749-751.
7. Tian, C.Y., et al. 2006. Progress in the study of KRAB zinc finger protein. *Yi Chuan* 28: 1451-1456.
8. Liu, J. and Stormo, G.D. 2008. Context-dependent DNA recognition code for C₂H₂ zinc-finger transcription factors. *Bioinformatics* 24: 1850-1857.
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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.

CHROMOSOMAL LOCATION

Genetic locus: ZNF750 (human) mapping to 17q25.3; Zfp750 (mouse) mapping to 11 E2.

SOURCE

ZNF750 (A-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF750 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-132596 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF750 (A-13) is recommended for detection of ZNF750 of mouse, rat and 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 ZNF750 siRNA (h): sc-93787, ZNF750 siRNA (m): sc-155789, ZNF750 shRNA Plasmid (h): sc-93787-SH, ZNF750 shRNA Plasmid (m): sc-155789-SH, ZNF750 shRNA (h) Lentiviral Particles: sc-93787-V and ZNF750 shRNA (m) Lentiviral Particles: sc-155789-V.

Molecular Weight of ZNF750: 77 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.