

ZNF263 (E-13): sc-165957

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. As a member of the krueppel C₂H₂-type zinc-finger protein family, ZNF263 (Zinc finger protein 263), also known as FPM315 or ZKSCAN12 (Zinc finger protein with KRAB and SCAN domains 12), is a 683 amino acid nuclear protein that contains nine C₂H₂-type zinc fingers, one KRAB domain and one SCAN box domain. ZNF263 acts as a transcriptional repressor in the nucleus and is expressed in various tissues including heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine, colon and leukocyte.

REFERENCES

1. Payre, F. and Vincent, A. 1988. Finger proteins and DNA-specific recognition: distinct patterns of conserved amino acids suggest different evolutionary modes. *FEBS Lett.* 234: 245-250.
2. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
3. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.* 11: 557-570.
4. Yokoyama, M., Nakamura, M., Okubo, K., Matsubara, K., Nishi, Y., Matsumoto, T. and Fukushima, A. 1997. Isolation of a cDNA encoding a widely expressed novel zinc finger protein with the LeR and KRAB-A domains. *Biochim. Biophys. Acta* 1353: 13-17.
5. Laity, J.H., Lee, B.M. and Wright, P.E. 2001. Zinc finger proteins: new insights into structural and functional diversity. *Curr. Opin. Struct. Biol.* 11: 39-46.
6. Edelstein, L.C. and Collins, T. 2005. The SCAN domain family of zinc finger transcription factors. *Gene* 359: 1-17.
7. Frieze, S., Lan, X., Jin, V.X. and Farnham, P.J. 2010. Genomic targets of the KRAB and SCAN domain-containing zinc finger protein 263. *J. Biol. Chem.* 285: 1393-1403.

CHROMOSOMAL LOCATION

Genetic locus: ZNF263 (human) mapping to 16p13.3; Zfp263 (mouse) mapping to 16 A1.

SOURCE

ZNF263 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF263 of human origin.

STORAGE

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

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-165957 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF263 (E-13) is recommended for detection of ZNF263 of mouse 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 ZNF263 siRNA (h): sc-92999, ZNF263 siRNA (m): sc-155671, ZNF263 shRNA Plasmid (h): sc-92999-SH, ZNF263 shRNA Plasmid (m): sc-155671-SH, ZNF263 shRNA (h) Lentiviral Particles: sc-92999-V and ZNF263 shRNA (m) Lentiviral Particles: sc-155671-V.

Molecular Weight of ZNF263: 77 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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.