

ZNF511 (H-10): sc-390972

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. ZNF511 (zinc finger protein 511) is a 262 amino acid nuclear protein belonging to the Krüppel C₂H₂-type zinc-finger protein family. Containing three C₂H₂-type zinc fingers, ZNF511 is thought to be involved in transcriptional regulation events. ZNF511 exists as 2 alternatively spliced isoforms and is encoded by a gene located on human chromosome 10, which consists of about 1,200 genes and makes up approximately 4.5% of the human genome.

REFERENCES

1. de Leeuw, R.J., et al. 2004. Comprehensive whole genome array CGH profiling of mantle cell lymphoma model genomes. *Hum. Mol. Genet.* 13: 1827-1837.
2. Edelstein, L.C. and Collins, T. 2005. The SCAN domain family of zinc finger transcription factors. *Gene* 359: 1-17.
3. Nusbaum, C., et al. 2006. DNA sequence and analysis of human chromosome 8. *Nature* 439: 331-335.
4. Kimura, K., et al. 2006. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. *Genome Res.* 16: 55-65.

CHROMOSOMAL LOCATION

Genetic locus: ZNF511 (human) mapping to 10q26.3; Zfp511 (mouse) mapping to 7 F4.

SOURCE

ZNF511 (H-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 39-64 within an internal region of ZNF511 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF511 (H-10) is available conjugated to agarose (sc-390972 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390972 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390972 PE), fluorescein (sc-390972 FITC), Alexa Fluor[®] 488 (sc-390972 AF488), Alexa Fluor[®] 546 (sc-390972 AF546), Alexa Fluor[®] 594 (sc-390972 AF594) or Alexa Fluor[®] 647 (sc-390972 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-390972 AF680) or Alexa Fluor[®] 790 (sc-390972 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390972 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor[®] is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

ZNF511 (H-10) is recommended for detection of ZNF511 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 ZNF511 siRNA (h): sc-90556, ZNF511 siRNA (m): sc-155732, ZNF511 shRNA Plasmid (h): sc-90556-SH, ZNF511 shRNA Plasmid (m): sc-155732-SH, ZNF511 shRNA (h) Lentiviral Particles: sc-90556-V and ZNF511 shRNA (m) Lentiviral Particles: sc-155732-V.

Molecular Weight of ZNF511 isoforms: 28/29 kDa.

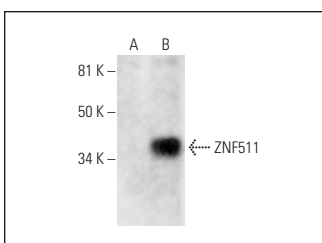
Positive Controls: ZNF511 (h): 293T Lysate: sc-114026.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.
- 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
- 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



ZNF511 (H-10): sc-390972. Western blot analysis of ZNF511 expression in non-transfected: sc-117752 (A) and human ZNF511 transfected: sc-114026 (B) 293T whole cell lysates.

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 for detailed protocols and support products.