

ZFAND2B (S-14): sc-135550

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. ZFAND2B (AN1-type zinc finger protein 2B) is a 257 amino acid protein containing 2 AN1-type zinc fingers and 2 UIM (ubiquitin-interacting motif) repeats. Conserved in animals and plants, the AN1-type zinc finger domain is often found in proteins that contain a ubiquitin-like domain, which suggests a role in the ubiquitination pathway. There are two isoforms of ZFAND2B that are produced as a result of alternative splicing events.

REFERENCES

1. Linnen, J.M., Bailey, C.P. and Weeks, D.L. 1993. Two related localized mRNAs from *Xenopus laevis* encode ubiquitin-like fusion proteins. *Gene* 128: 181-188.
2. Klug, A. 1999. Zinc finger peptides for the regulation of gene expression. *J. Mol. Biol.* 293: 215-218.
3. 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.
4. Matthews, J.M. and Sunde, M. 2002. Zinc fingers — folds for many occasions. *IUBMB Life* 54: 351-355.
5. Huang, J., Teng, L., Li, L., Liu, T., Li, L., Chen, D., Xu, L.G., Zhai, Z. and Shu, H.B. 2004. ZNF216 is an A20-like and I κ B kinase γ -interacting inhibitor of NF κ B activation. *J. Biol. Chem.* 279: 16847-16853.
6. Brown, R.S. 2005. Zinc finger proteins: getting a grip on RNA. *Curr. Opin. Struct. Biol.* 15: 94-98.

CHROMOSOMAL LOCATION

Genetic locus: ZFAND2B (human) mapping to 2q35; Zfand2b (mouse) mapping to 1 C3.

SOURCE

ZFAND2B (S-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZFAND2B of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-135550 P, (100 μ g 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

ZFAND2B (S-14) is recommended for detection of ZFAND2B isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with ZFAND2A.

ZFAND2B (S-14) is also recommended for detection of ZFAND2B isoforms 1 and 2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ZFAND2B siRNA (h): sc-94464, ZFAND2B siRNA (m): sc-155514, ZFAND2B shRNA Plasmid (h): sc-94464-SH, ZFAND2B shRNA Plasmid (m): sc-155514-SH, ZFAND2B shRNA (h) Lentiviral Particles: sc-94464-V and ZFAND2B shRNA (m) Lentiviral Particles: sc-155514-V.

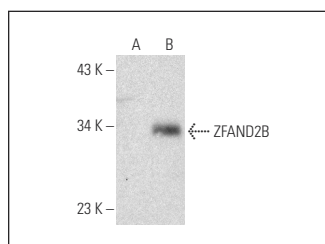
Molecular Weight of ZFAND2B: 28 kDa.

Positive Controls: ZFAND2B (h): 293T Lysate: sc-113058 or mouse brain extract: sc-2253.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZFAND2B (S-14): sc-135550. Western blot analysis of ZFAND2B expression in non-transfected: sc-117752 (A) and human ZFAND2B transfected: sc-113058 (B) 293T whole cell lysates.

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.