

ZFAND2B (F-2): sc-398044

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 two AN1-type zinc fingers and two 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

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3. Laity, J.H., et al. 2001. Zinc finger proteins: new insights into structural and functional diversity. *Curr. Opin. Struct. Biol.* 11: 39-46.
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5. Huang, J., et al. 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.
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CHROMOSOMAL LOCATION

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

SOURCE

ZFAND2B (F-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 128-149 within an internal region of ZFAND2B of human origin.

PRODUCT

Each vial contains 200 μ g IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398044 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

ZFAND2B (F-2) 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 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

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

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.

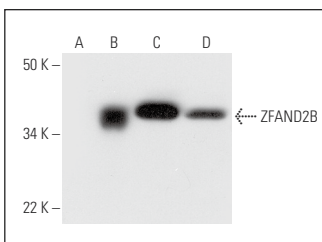
Molecular Weight of ZFAND2B: 28 kDa.

Positive Controls: ZFAND2B (h): 293T Lysate: sc-113058, Hep G2 cell lysate: sc-2227 or H4 cell lysate: sc-2408.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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 L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ 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



ZFAND2B (F-2): sc-398044. Western blot analysis of ZFAND2B expression in non-transfected 293T: sc-117752 (A), human ZFAND2B transfected 293T: sc-113058 (B), Hep G2 (C) and H4 (D) 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.