ZFAND2B (A-1): sc-398078



The Power to Question

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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- 4. Matthews, J.M. and Sunde, M. 2002. Zinc fingers—folds for many occasions. IUBMB Life 54: 351-355.
- 5. Huang, J., et al. 2004. ZNF216 is an A20-like and $l\kappa B$ kinase γ -interacting inhibitor of NF κB 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 (A-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 129-152 within an internal region of ZFAND2B of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lgG_3$ 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-398078 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

ZFAND2B (A-1) 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 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).

ZFAND2B (A-1) 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.

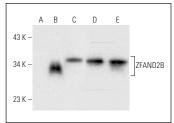
Molecular Weight of ZFAND2B: 28 kDa.

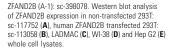
Positive Controls: ZFAND2B (h): 293T Lysate: sc-113058, LADMAC whole cell lysate: sc-364189 or WI-38 whole cell lysate: sc-364260.

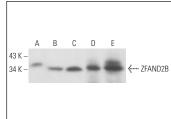
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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-lgG κ BP-FITC: sc-516140 or m-lgG 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 (A-1): sc-398078. Western blot analysis of ZFAND2B expression in Hep G2 (A), T98G (B) and C6 (C) whole cell lysates and human brain (D) and mouse brain (E) tissue extracts.

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.