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ZNF295 (D-8): sc-518254

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. ZNF295 (zinc finger protein 295), also known as ZBTB21, is a 1066 amino acid zinc finger protein belonging to the Krüppel C2H2-type zinc-finger protein family. Localized to the nucleus, ZNF295 may play a role in transcriptional regulation. Phosphorylated upon DNA damage, ZNF295 contains one BTB (POZ) domain and eight C2H2-type zinc fingers.

REFERENCES

- Nagase, T., et al. 1999. Prediction of the coding sequences of unidentified human genes. XV. The complete sequences of 100 new cDNA clones from brain which code for large proteins *in vitro*. DNA Res. 6: 337-345.
- Sun, Y., et al. 2003. The KRAB domain of zinc finger gene ZNF268: a potential transcriptional repressor. IUBMB Life 55: 127-131.
- Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C2H2 zinc finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39.
- Jin, J., et al. 2004. Proteomic, functional, and domain-based analysis of *in vivo* 14-3-3 binding proteins involved in cytoskeletal regulation and cellular organization. Curr. Biol. 14: 1436-1450.
- Nakamura, M., et al. 2004. A novel subfamily of zinc finger genes involved in embryonic development. J. Cell. Biochem. 93: 887-895.
- Wang, J., et al. 2005. Novel human BTB/POZ domain-containing zinc finger protein ZNF295 is directly associated with ZFP161. Biochem. Biophys. Res. Commun. 327: 615-627.

CHROMOSOMAL LOCATION

Genetic locus: ZBTB21 (human) mapping to 21q22.3.

SOURCE

ZNF295 (D-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 480-508 of ZNF295 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF295 (D-8) is available conjugated to agarose (sc-518254 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518254 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518254 PE), fluorescein (sc-518254 FITC), Alexa Fluor[®] 488 (sc-518254 AF488), Alexa Fluor[®] 546 (sc-518254 AF546), Alexa Fluor[®] 594 (sc-518254 AF594) or Alexa Fluor[®] 647 (sc-518254 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-518254 AF680) or Alexa Fluor[®] 790 (sc-518254 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

ZNF295 (D-8) is recommended for detection of ZNF295 of 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 ZNF295 siRNA (h): sc-91471, ZNF295 shRNA Plasmid (h): sc-91471-SH and ZNF295 shRNA (h) Lentiviral Particles: sc-91471-V.

Molecular Weight of ZNF295 short isoform: 95 kDa.

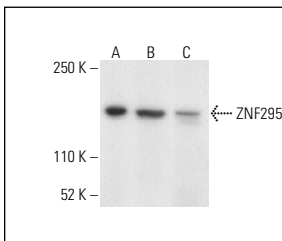
Molecular Weight of ZNF295 long isoform: 118 kDa.

Positive Controls: SH-SY5Y cell lysate: sc-3812, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

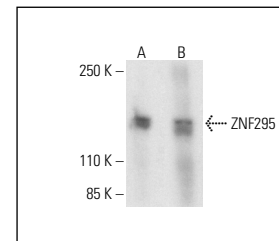
RECOMMENDED SUPPORT REAGENTS

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 A/G PLUS-Agarose: sc-2003 (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



ZNF295 (D-8): sc-518254. Western blot analysis of ZNF295 expression in Hep G2 (A), HeLa (B) and SH-SY5Y (C) whole cell lysates. Detection reagent used: m-IgG_κ BP-HRP: sc-516102.



ZNF295 (D-8): sc-518254. Western blot analysis of ZNF295 expression in HeLa (A) and SH-SY5Y (B) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.

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.