

ZNF512B (H-180): sc-292023

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. ZNF512B (zinc finger protein 512B), also known as GM632, is an 892 amino acid protein that localizes to the nucleus and belongs to the Krüppel C₂H₂-type zinc-finger protein family. Thought to be involved in transcriptional regulation, ZNF512B contains seven C₂H₂-type zinc fingers and is encoded by a gene which maps to human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

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.
- Ville, D., et al. 2006. Early pattern of epilepsy in the ring chromosome 20 syndrome. Epilepsia 47: 543-549.
- Blanc, P., et al. 2008. Trisomy 20q caused by interstitial duplication 20q13.2: clinical report and literature review. Am. J. Med. Genet. A 146A: 1307-1311.
- Brayer, K.J., et al. 2008. The protein-binding potential of C₂H₂ zinc finger domains. Cell Biochem. Biophys. 51: 9-19.
- Ding, G., et al. 2009. SysZNF: the C₂H₂ zinc finger gene database. Nucleic Acids Res. 37: D267-D273.

CHROMOSOMAL LOCATION

Genetic locus: ZNF512B (human) mapping to 20q13.33; Znf512b (mouse) mapping to 2 H4.

SOURCE

ZNF512B (H-180) is a rabbit polyclonal antibody raised against amino acids 1-180 mapping at the N-terminus of ZNF512B of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292023 X, 200 µg/0.1 ml.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ZNF512B (H-180) is recommended for detection of ZNF512B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

ZNF512B (H-180) is also recommended for detection of ZNF512B in additional species, including equine and canine.

Suitable for use as control antibody for ZNF512B siRNA (h): sc-76991, ZNF512B siRNA (m): sc-155734, ZNF512B shRNA Plasmid (h): sc-76991-SH, ZNF512B shRNA Plasmid (m): sc-155734-SH, ZNF512B shRNA (h) Lentiviral Particles: sc-76991-V and ZNF512B shRNA (m) Lentiviral Particles: sc-155734-V.

ZNF512B (H-180) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

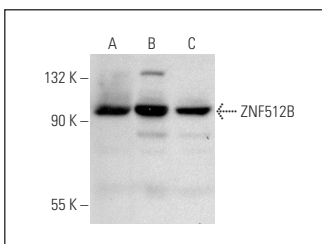
Molecular Weight of ZNF512B: 97 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or MCF7 nuclear extract: sc-2149.

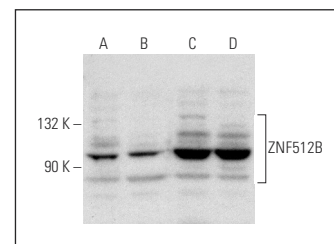
RECOMMENDED SECONDARY REAGENTS

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



ZNF512B (H-180): sc-292023. Western blot analysis of ZNF512B expression in MDA-MB-435S (A), HeLa (B) and Jurkat (C) whole cell lysates.



ZNF512B (H-180): sc-292023. Western blot analysis of ZNF512B expression in HeLa (A), IMR-32 (B), MDA-MB-231 (C) and MCF7 (D) nuclear extracts.

RESEARCH USE

For research use only, not for use in diagnostic procedures.