

# ZNF512B (N-16): sc-86055

## 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 Krueppel-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 Krueppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family. Thought to be involved in transcriptional regulation, ZNF512B contains seven C<sub>2</sub>H<sub>2</sub>-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

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2. Ville, D., Kaminska, A., Bahi-Buisson, N., Biraben, A., Plouin, P., Telvi, L., Dulac, O. and Chiron, C. 2006. Early pattern of epilepsy in the ring chromosome 20 syndrome. *Epilepsia* 47: 543-549.
3. Blanc, P., Gouas, L., Francannet, C., Giollant, M., Vago, P. and Goumy, C. 2008. Trisomy 20q caused by interstitial duplication 20q13.2: clinical report and literature review. *Am. J. Med. Genet. A* 146A: 1307-1311.
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5. Ding, G., Lorenz, P., Kreutzer, M., Li, Y. and Thiesen, H.J. 2009. SysZNF: the C<sub>2</sub>H<sub>2</sub> 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 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZNF512B of human origin.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

## PRODUCT

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

Blocking peptide available for competition studies, ready P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-86055 X, 100 µg/0.1 ml.

## APPLICATIONS

ZNF512B (N-16) is recommended for detection of ZNF512B of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other ZNF family members.

ZNF512B (N-16) is also recommended for detection of ZNF512B in additional species, including equine, canine and avian.

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 (N-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZNF512B: 97 kDa.

## 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) 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.