

ZNF545 (S-18): sc-102235

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 Krüppel-type DNA binding domains that are frequently observed to be involved in sequence-specific DNA binding. ZNF545 is a 532 amino acid transcriptional regulator belonging to the Krüppel C₂H₂-type zinc finger protein family. ZNF545 localizes to the nucleus and contains 13 C₂H₂-type zinc fingers and a KRAB domain. Two isoforms of ZNF545 are formed due to alternative splicing. ZNF545 is encoded by a gene located on chromosome 19, which contains a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. Chromosome 19 is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcR). Key genes for eye color and hair color also map to chromosome 19.

REFERENCES

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4. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.* 11: 557-570.
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8. Brayer, K.J., Kulshreshtha, S. and Segal, D.J. 2008. The protein-binding potential of C₂H₂ zinc finger domains. *Cell Biochem. Biophys.* 51: 9-19.
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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.

CHROMOSOMAL LOCATION

Genetic locus: ZNF545 (human) mapping to 19q13.12; Zfp82 (mouse) mapping to 7 B1.

SOURCE

ZNF545 (S-18) is a purified rabbit polyclonal antibody raised against ZNF545 of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

ZNF545 (S-18) is recommended for detection of ZNF545 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF545 siRNA (h): sc-97866, ZNF545 siRNA (m): sc-155745, ZNF545 shRNA Plasmid (h): sc-97866-SH, ZNF545 shRNA Plasmid (m): sc-155745-SH, ZNF545 shRNA (h) Lentiviral Particles: sc-97866-V and ZNF545 shRNA (m) Lentiviral Particles: sc-155745-V.

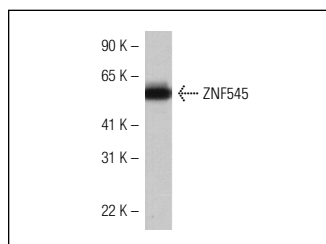
Molecular Weight of ZNF545: 63 kDa.

Positive Controls: ZNF545 (h): 293T Lysate: sc-115177.

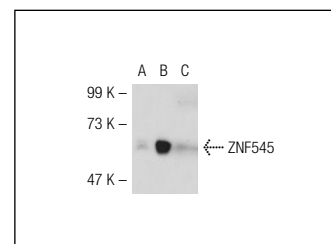
RECOMMENDED SECONDARY REAGENTS

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).

DATA



ZNF545 (S-18): sc-102235. Western blot analysis of ZNF545 expression in transfected 293T whole cell lysate.



ZNF545 (S-18): sc-102235. Western blot analysis of ZNF545 expression in non-transfected: sc-117752 (A) and human ZNF545 transfected: sc-115177 (B) 293T whole cell lysates and mouse brain tissue extract (C).

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.