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ZNF167 (h2): 293T Lysate: sc-116846

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. A member of the Krüppel C₂H₂-type zinc-finger protein family, ZNF167 (zinc finger protein 167), also known as zinc finger protein with KRAB and SCAN domains 7, is a 754 amino acid protein containing 13 C₂H₂-type zinc fingers, one KRAB domain and one SCAN box domain. Localized to the nucleus, ZNF167 exhibits transcriptional regulation activity. There are two isoforms of ZNF167 that are produced as a result of alternative splicing events.

REFERENCES

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3. Pengue, G., Calabrò, V., Bartoli, P.C., Pagliuca, A. and Lania, L. 1994. Repression of transcriptional activity at a distance by the evolutionarily conserved KRAB domain present in a subfamily of zinc finger proteins. *Nucleic Acids Res.* 22: 2908-2914.
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8. Sripathy, S.P., Stevens, J. and Schultz, D.C. 2006. The KAP1 corepressor functions to coordinate the assembly of *de novo* HP1-demarcated micro-environments of heterochromatin required for KRAB zinc finger protein-mediated transcriptional repression. *Mol. Cell. Biol.* 26: 8623-8638.

CHROMOSOMAL LOCATION

Genetic locus: ZNF167 (human) mapping to 3p21.31.

PRODUCT

ZNF167 (h2): 293T Lysate represents a lysate of human ZNF167 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ZNF167 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZNF167 antibodies. Recommended use: 10-20 µl per lane.

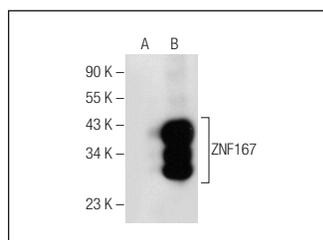
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZNF167 (G-4): sc-376321 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZNF167 expression in ZNF167 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

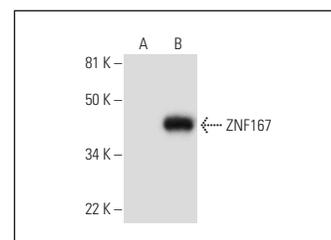
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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.

DATA



ZNF167 (G-4): sc-376321. Western blot analysis of ZNF167 expression in non-transfected: sc-117752 (A) and human ZNF167 transfected: sc-116846 (B) 293T whole cell lysates.



ZNF167 (E-10): sc-393061. Western blot analysis of ZNF167 expression in non-transfected: sc-117752 (A) and human ZNF167 transfected: sc-116846 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.