

ZFP64 (m): 293T Lysate: sc-127809

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. ZFP64 (Zinc finger protein 64), also known as ZNF338, is a 681 amino acid homolog of the mouse Zfp64 protein and is a member of the Krüppel C₂H₂-type zinc-finger family. Localized to the nucleus, ZFP64 contains nine C₂H₂-type zinc fingers and is thought to be involved in transcriptional regulation. Four isoforms of ZFP64 exist due to alternative splicing events.

REFERENCES

1. Mack, H.G., et al. 1997. A search for a mammalian homologue of the *Drosophila* photoreceptor development gene glass yields Zfp64, a zinc finger encoding gene which maps to the distal end of mouse chromosome 2. *Gene* 185: 11-17.
2. Grishin, A.V., et al. 1998. Mot3, a Zn finger transcription factor that modulates gene expression and attenuates mating pheromone signaling in *Saccharomyces cerevisiae*. *Genetics* 149: 879-892.
3. Deloukas, P., et al. 2001. The DNA sequence and comparative analysis of human chromosome 20. *Nature* 414: 865-871.
4. Borozdin, W., et al. 2007. Multigene deletions on chromosome 20q13.13-q13.2 including SALL4 result in an expanded phenotype of Okihiro syndrome plus developmental delay. *Hum. Mutat.* 28: 830-830.
5. Okada, G., et al. 2008. Differential display analysis of gene expression in female-to-male sex-reversing gonads of the frog *Rana rugosa*. *Gen. Comp. Endocrinol.* 155: 623-634.

CHROMOSOMAL LOCATION

Genetic locus: Zfp64 (mouse) mapping to 2 H3.

PRODUCT

ZFP64 (m): 293T Lysate represents a lysate of mouse ZFP64 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

ZFP64 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ZFP64 antibodies. Recommended use: 10-20 µl per lane.

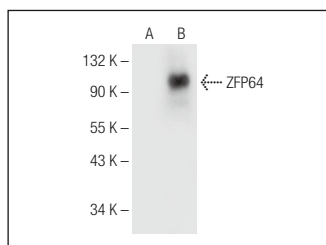
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZFP64 (F-3): sc-374263 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ZFP64 expression in ZFP64 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



ZFP64 (F-3): sc-374263. Western blot analysis of ZFP64 expression in non-transfected: sc-117752 (A) and mouse ZFP64 transfected: sc-127809 (B) 293T whole cell lysates.

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.