

MIZIP (h): 293T Lysate: sc-170705

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. MIZIP (MCH-R1-interacting zinc finger protein), also known as ZMYND19 (zinc finger MYND domain-containing protein 19), is a 227 amino acid protein that localizes to both the cytoplasm and to the cell membrane and contains one MYND-type zinc finger. Expressed in stomach, brain, liver, testis, heart, kidney and skeletal muscle, MIZIP interacts with MCH-1R and is thought to regulate MCH-1R signaling. Human MIZIP shares 100% sequence identity with its mouse and rat counterparts, suggesting a conserved role between species. The gene encoding MIZIP maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome.

REFERENCES

1. Bächner, D., et al. 2002. MIZIP, a highly conserved, vertebrate specific melanin-concentrating hormone receptor 1 interacting zinc-finger protein. *FEBS Lett.* 526: 124-128.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 611424. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. *Nature* 429: 369-374.
4. Francke, F., et al. 2005. MYND domain specific interaction of the melanin-concentrating hormone receptor 1 interacting zinc-finger protein with α - and β -Tubulin. *Biochem. Biophys. Res. Commun.* 334: 1292-1298.
5. Francke, F., et al. 2005. Immunohistochemical distribution of MIZIP and its co-expression with the melanin-concentrating hormone receptor 1 in the adult rodent brain. *Brain Res. Mol. Brain Res.* 139: 31-41.

CHROMOSOMAL LOCATION

Genetic locus: ZMYND19 (human) mapping to 9q34.3.

PRODUCT

MIZIP (h): 293T Lysate represents a lysate of human MIZIP transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

MIZIP (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive MIZIP antibodies. Recommended use: 10-20 μ l per lane.

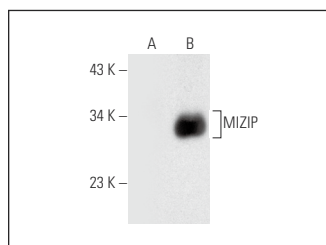
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

MIZIP (E-4): sc-398514 is recommended as a positive control antibody for Western Blot analysis of enhanced human MIZIP expression in MIZIP 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



MIZIP (E-4): sc-398514. Western blot analysis of MIZIP expression in non-transfected: sc-117752 (A) and human MIZIP transfected: sc-170705 (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.