

ZNF239 (H-24): sc-102194

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. ZNF239, also known as zinc finger protein MOK-2 or HOK-2, is a 458 amino acid protein belonging to the Krüppel C₂H₂-type zinc finger protein family. Localized to the nucleus, ZNF239 contains nine C₂H₂-type zinc finger domains. Due to the presence of these domains, ZNF239 may be involved in transcriptional regulation. ZNF239 is present at high levels in brain, breast and testis, and has no expression in liver or placenta.

REFERENCES

1. Bellefroid, E.J., et al. 1991. The evolutionarily conserved Krüppel-associated box domain defines a subfamily of eukaryotic multifingered proteins. *Proc. Natl. Acad. Sci. USA* 88: 3608-3612.
2. Margolin, J.F., et al. 1994. Krüppel-associated boxes are potent transcriptional repression domains. *Proc. Natl. Acad. Sci. USA* 91: 4509-4513.
3. Ernault-Lange, M., et al. 1995. Human and mouse Krüppel-like (MOK2) orthologue genes encode two different zinc finger proteins. *J. Mol. Evol.* 41: 784-794.
4. Arranz, V., et al. 1996. Localization of zinc finger Mok2 gene to mouse chromosome 6, a new region of homology with human chromosome 19. *Mamm. Genome* 7: 77-78.
5. Arranz, V., et al. 1997. Human and mouse MOK2 proteins are associated with nuclear ribonucleoprotein components and bind specifically to RNA and DNA through their zinc finger domains. *Mol. Cell. Biol.* 17: 2116-2126.
6. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 601069. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Shannon, M., et al. 2003. Differential expansion of zinc-finger transcription factor loci in homologous human and mouse gene clusters. *Genome Res.* 13: 1097-1110.
8. Dreuillet, C., et al. 2008. Mislocalization of human transcription factor MOK2 in the presence of pathogenic mutations of lamin A/C. *Biol. Cell* 100: 51-61.

CHROMOSOMAL LOCATION

Genetic locus: ZNF239 (human) mapping to 10q11.21.

SOURCE

ZNF239 (H-24) is a purified rabbit polyclonal antibody raised against ZNF239 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

ZNF239 (H-24) is recommended for detection of ZNF239 of 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 ZNF239 siRNA (h): sc-90731, ZNF239 shRNA Plasmid (h): sc-90731-SH and ZNF239 shRNA (h) Lentiviral Particles: sc-90731-V.

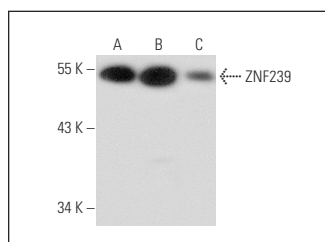
Molecular Weight of ZNF239: 52 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, Jurkat nuclear extract: sc-2132 or HeLa nuclear extract: sc-2120.

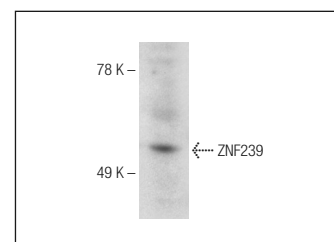
RECOMMENDED SECONDARY REAGENTS

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.

DATA



ZNF239 (H-24): sc-102194. Western blot analysis of ZNF239 expression in Jurkat whole cell lysate (A) and Jurkat (B) and HeLa (C) nuclear extracts.



ZNF239 (H-24): sc-102194. Western blot analysis of ZNF239 expression in human testis tissue extract.

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 or our catalog for detailed protocols and support products.