

ZNF239 (D-12): sc-132523

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

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2. Margolin, J.F., et al. 1994. Krüppel-associated boxes are potent transcriptional repression domains. *Proc. Natl. Acad. Sci. USA* 91: 4509-4513.
3. Ernoult-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.
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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.
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CHROMOSOMAL LOCATION

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

SOURCE

ZNF239 (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNF239 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132523 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-132523 X, 200 µg/0.1 ml.

APPLICATIONS

ZNF239 (D-12) is recommended for detection of ZNF239 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ZNF family members.

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.

ZNF239 (D-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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