

ZNF415 (B-23): sc-102217

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. As a member of the Krüppel C₂H₂-type zinc finger protein family, ZNF415 (zinc finger protein 415) is a 603 amino acid protein. Localized to the nucleus, ZNF415 contains 12 C₂H₂-type zinc fingers. ZNF415 is thought to be involved in transcriptional regulation by suppressing the transcriptional activities of Jun and p53. Ubiquitously expressed, ZNF415 exists as five isoforms produced by alternative splicing. The isoforms differ in their expression levels, with isoforms 3 and 5 being highly expressed, isoform 4 having moderate expression and isoforms 1 and 2 having the lowest expression.

REFERENCES

1. Payre, F. and Vincent, A. 1988. Finger proteins and DNA-specific recognition: distinct patterns of conserved amino acids suggest different evolutionary modes. *FEBS Lett.* 234: 245-250.
2. Berg, J.M. 1988. Proposed structure for the zinc-binding domains from transcription factor IIIA and related proteins. *Proc. Natl. Acad. Sci. USA* 85: 99-102.
3. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
4. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.* 11: 557-570.
5. Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C₂H₂ zinc finger proteins in the *Arabidopsis thaliana* genome. *BMC Genomics* 5: 39-39.
6. Cheng, Y., et al. 2006. A novel human gene ZNF415 with five isoforms inhibits AP-1- and p53-mediated transcriptional activity. *Biochem. Biophys. Res. Commun.* 351: 33-39.

CHROMOSOMAL LOCATION

Genetic locus: ZNF415 (human) mapping to 19q13.41.

SOURCE

ZNF415 (B-23) is a purified rabbit polyclonal antibody raised against ZNF415 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.

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.

APPLICATIONS

ZNF415 (B-23) is recommended for detection of ZNF415 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 ZNF415 siRNA (h): sc-97175, ZNF415 shRNA Plasmid (h): sc-97175-SH and ZNF415 shRNA (h) Lentiviral Particles: sc-97175-V.

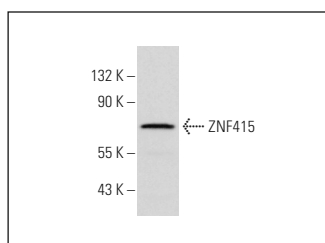
Molecular Weight of ZNF415: 69 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



ZNF415 (B-23): sc-102217. Western blot analysis of ZNF415 expression in Jurkat whole cell lysate.

RESEARCH USE

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