



ZNF33A (X-22): sc-134182

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. ZNF33A (zinc finger protein 33A), also known as KOX2, KOX5, KOX31, NF11A, ZNF11, ZNF33, ZZAPK or ZNF11A, is a 810 amino acid nuclear protein belonging to the Krüppel C₂H₂-type zinc-finger protein family. Containing sixteen C₂H₂-type zinc fingers and a KRAB domain, ZNF33A may be involved in transcriptional regulation. ZNF33A is suggested to increase E2F expression and induce cyclin E/Cdk2 activity. ZNF33A interacts with and is suppressed by MLTK.

REFERENCES

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3. Tunnaciff, A., et al. 1993. Duplicated KOX zinc finger gene clusters flank the centromere of human chromosome 10: evidence for a pericentric inversion during primate evolution. *Nucleic Acids Res.* 21: 1409-1417.
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7. Guy, J., et al. 2003. Genomic sequence and transcriptional profile of the boundary between pericentromeric satellites and genes on human chromosome arm 10p. *Genome Res.* 13: 159-172.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF33A (human) mapping to 10p11.21.

SOURCE

ZNF33A (X-22) is an affinity purified rabbit polyclonal antibody raised against synthetic ZNF33A peptide of human origin.

STORAGE

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

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

ZNF33A (X-22) is recommended for detection of ZNF33A 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 ZNF33A siRNA (h): sc-90493, ZNF33A shRNA Plasmid (h): sc-90493-SH and ZNF33A shRNA (h) Lentiviral Particles: sc-90493-V.

Molecular Weight of ZNF33A: 94 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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).

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.