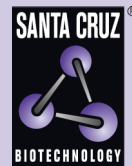


ZNF19 (B-11): sc-166026



The Power to Question

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. ZNF19, also known as KOX12, belongs to the Krüppel C₂H₂-type zinc-finger family of transcriptional regulators. ZNF19 is 458 amino acids in length and contains 10 C₂H₂-type zinc fingers and one KRAB domain. Expression of ZNF19 is localized to the nucleus.

REFERENCES

1. Cannizzaro, L.A., et al. 1993. Human zinc finger gene ZNF23 (Kox16) maps to a zinc finger gene cluster on chromosome 16q22, and ZNF32 (Kox30) to chromosome region 10q23-q24. *Hum. Genet.* 91: 383-385.
2. Rousseau-Merck, M.F., et al. 1994. Chromosomal localization of 9 KOX zinc finger genes: physical linkages suggest clustering of KOX genes on chromosomes 12, 16, and 19. *Hum. Genet.* 92: 583-587.
3. Sun, Y., et al. 2003. The KRAB domain of zinc finger gene ZNF268: a potential transcriptional repressor. *IUBMB Life* 55: 127-131.
4. Rousseau-Merck, M.F., et al. 2003. The KOX zinc finger genes: genome wide mapping of 3.ZNF PAC clones with zinc finger gene clusters predominantly in 23 chromosomal loci are confirmed by human sequences annotated in Ensembl. *Cytogenet. Genome Res.* 98: 147-153.
5. Nakamura, M., et al. 2004. A novel subfamily of zinc finger genes involved in embryonic development. *J. Cell. Biochem.* 93: 887-895.
6. 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.

CHROMOSOMAL LOCATION

Genetic locus: ZNF19 (human) mapping to 16q22.2.

SOURCE

ZNF19 (B-11) is a mouse monoclonal antibody raised against amino acids 71-164 mapping near the N-terminus of ZNF19 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-166026 X, 200 µg/0.1 ml.

ZNF19 (B-11) is available conjugated to agarose (sc-166026 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166026 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166026 PE), fluorescein (sc-166026 FITC), Alexa Fluor® 488 (sc-166026 AF488), Alexa Fluor® 546 (sc-166026 AF546), Alexa Fluor® 594 (sc-166026 AF594) or Alexa Fluor® 647 (sc-166026 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166026 AF680) or Alexa Fluor® 790 (sc-166026 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

ZNF19 (B-11) is recommended for detection of ZNF19 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for ZNF19 siRNA (h): sc-93436, ZNF19 shRNA Plasmid (h): sc-93436-SH and ZNF19 shRNA (h) Lentiviral Particles: sc-93436-V.

ZNF19 (B-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

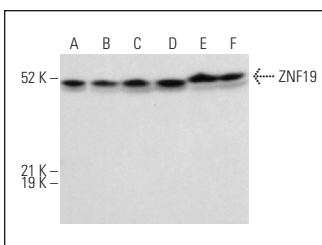
Molecular Weight of ZNF19: 52 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, MCF7 whole cell lysate: sc-2206 or A549 cell lysate: sc-2413.

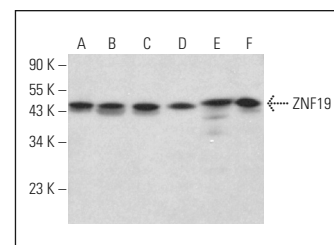
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ZNF19 (B-11): sc-166026. Western blot analysis of ZNF19 expression in HeLa nuclear extract (A) and MCF7 (B), A549 (C), AN3 CA (D), NIH/3T3 (E) and PC-12 (F) whole cell lysates.



ZNF19 (B-11): sc-166026. Western blot analysis of ZNF19 expression in HeLa (A) and MCF7 (B) nuclear extracts and MDA-MB-231 (C), SK-BR-3 (D), MH-S (E) and 3T3-L1 (F) whole cell lysates.

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.

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