SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF509 (3502C2a): sc-81144



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. ZNF509 is a zinc finger protein belonging to the Krüppel C_2H_2 -type zinc-finger protein family. It localizes to the nucleus and may play a role in transcriptional regulation. ZNF509 is a 765 amino acid long protein that contains seven C_2H_2 -type zinc fingers and one BTB (POZ) domain.

REFERENCES

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- Englbrecht, C.C., Schoof, H. and Böhm, S. 2004. Conservation, diversification and expansion of C₂H₂ zinc finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39.
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- O'Geen, H., Squazzo, S.L., Iyengar, S., Blahnik, K., Rinn, J.L., Chang, H.Y., Green, R. and Farnham, P.J. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. PLoS Genet. 3: e89.

CHROMOSOMAL LOCATION

Genetic locus: ZNF509 (human) mapping to 4p16.3.

SOURCE

ZNF509 (3502C2a) is a mouse monoclonal antibody raised against a recombinant protein corresponding to an internal region of ZNF509 of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

STORAGE

Store at 4° C, **D0 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.

APPLICATIONS

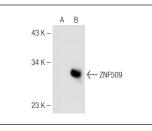
ZNF509 (3502C2a) is recommended for detection of ZNF509 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

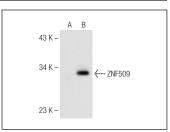
Suitable for use as control antibody for ZNF509 siRNA (h): sc-88959, ZNF509 shRNA Plasmid (h): sc-88959-SH and ZNF509 shRNA (h) Lentiviral Particles: sc-88959-V.

Molecular Weight of ZNF509: 85 kDa.

Positive Controls: ZNF509 (h): 293T Lysate: sc-113645 or LNCaP cell lysate: sc-2231.

DATA





ZNF509 (3502C2a): sc-81144. Western blot analysis of ZNF509 expression in non-transfected: sc-117752 (A) and mouse ZNF509 transfected: sc-124802 (B) 293T whole cell lysates.

ZNF509 (3502C2a): sc-81144. Western blot analysis of ZNF509 expression in non-transfected: sc-117752 (**A**) and human ZNF509 transfected: sc-113645 (**B**) 293T whole cell lysates.

PROTOCOLS

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