

ZNF79 (S-20): sc-130047



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. ZNF79 (zinc finger protein 79), also known as ZNFpT7 or pT7, is a 498 amino acid member of the Krüppel C₂H₂-type zinc finger protein family and is thought to be involved in transcriptional regulation. Localized to the nucleus, ZNF79 contains one KRAB domain and 11 C₂H₂-type zinc fingers through which it may convey DNA, RNA and protein binding capabilities.

REFERENCES

- Huebner, K., Druck, T., LaForgia, S., Lasota, J., Croce, C.M., Lanfrancione, L., Donti, E., Pengue, G., La Mantia, G. and Pelicci, P.G. 1993. Chromosomal localization of four human zinc finger cDNAs. *Hum. Genet.* 91: 217-222.
- Rousseau-Merck, M.F., Hillion, J., Jonveaux, P., Couillin, P., Seité, P., Thiesen, H.J. and Berger, R. 1993. 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.
- McDonald, M.T., Papenberg, K.A., Ghosh, S., Glatfelter, A.A., Biesecker, B.B., Helmbold, E.A., Markel, D.S., Zolotor, A., McKinnon, W.C. and Vanderstoep, J.L. 1994. A disease locus for hereditary haemorrhagic telangiectasia maps to chromosome 9q33-34. *Nat. Genet.* 6: 197-204.
- Witzgall, R., O'Leary, E., Leaf, A., Onaldi, D. and Bonventre, J.V. 1994. The Krüppel-associated box-A (KRAB-A) domain of zinc finger proteins mediates transcriptional repression. *Proc. Natl. Acad. Sci. USA* 91: 4514-4518.
- Mark, C., Abrink, M. and Hellman, L. 1999. Comparative analysis of KRAB zinc finger proteins in rodents and man: evidence for several evolutionarily distinct subfamilies of KRAB zinc finger genes. *DNA Cell Biol.* 18: 381-396.
- Williams, A.J., Blacklow, S.C. and Collins, T. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. *Mol. Cell. Biol.* 19: 8526-8535.
- Peng, H., Begg, G.E., Harper, S.L., Friedman, J.R., Speicher, D.W. and Rauscher, F.J. 2000. Biochemical analysis of the Krüppel-associated box (KRAB) transcriptional repression domain. *J. Biol. Chem.* 275: 18000-18010.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 194552. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: ZNF79 (human) mapping to 9q33.3.

SOURCE

ZNF79 (S-20) is a purified rabbit polyclonal antibody raised against ZNF79 of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

ZNF79 (S-20) is recommended for detection of ZNF79 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 ZNF79 siRNA (h): sc-92812, ZNF79 shRNA Plasmid (h): sc-92812-SH and ZNF79 shRNA (h) Lentiviral Particles: sc-92812-V.

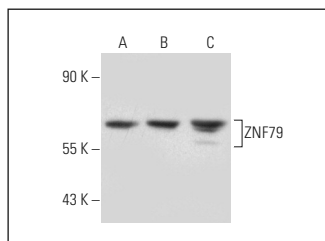
Molecular Weight of ZNF79: 55 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, HEL 92.1.7 cell lysate: sc-2270 or SH-SY5Y nuclear extract: sc-364820.

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



ZNF79 (S-20): sc-130047. Western blot analysis of ZNF79 expression in K-562 (A), HEL 92.1.7 (B) and SH-SY5Y (C) nuclear extracts.

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.