

ZNF7 (D-24): sc-134209

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 Kruppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF7 (Zinc finger protein 7), also known as KOX4 or HF.16, is a 686 amino acid zinc-finger protein that belongs to the Kruppel C₂H₂-type zinc finger family. Localized to the nucleus, ZFP3 contains fifteen C₂H₂-type zinc fingers and is thought to play a role in transcriptional regulation.

REFERENCES

1. Lania, L., Donti, E., Pannuti, A., Pascucci, A., Pengue, G., Feliciello, I., La Mantia, G., Lanfrancone, L. and Pelicci, P.G. 1990. cDNA isolation, expression analysis, and chromosomal localization of two human zinc finger genes. *Genomics* 6: 333-340.
2. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
3. Bray, P., Lichter, P., Thiesen, H.J., Ward, D.C. and Dawid, I.B. 1991. Characterization and mapping of human genes encoding zinc finger proteins. *Proc. Natl. Acad. Sci. USA* 88: 9563-9567.
4. Huebner, K., Druck, T., LaForgia, S., Lasota, J., Croce, C.M., Lanfrancone, 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.
5. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 194531. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: ZNF7 (human) mapping to 8q24.3.

SOURCE

ZNF7 (D-24) is a Protein A purified rabbit polyclonal antibody raised against synthetic ZNF7 peptide of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml 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

ZNF7 (D-24) is recommended for detection of ZNF7 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 ZNF7 siRNA (h): sc-77562, ZNF7 shRNA Plasmid (h): sc-77562-SH and ZNF7 shRNA (h) Lentiviral Particles: sc-77562-V.

Molecular Weight of ZNF7: 78 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).

RESEARCH USE

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