SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF35 (X-24): sc-134184



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 Kruppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF35 (zinc finger protein 35), also known as HF.10, HF10 or Zfp105, is a zinc finger protein that localizes to the nucleus and belongs to the Kruppel C_2H_2 -type zinc finger protein family. ZNF35 contains 11 C_2H_2 -type zinc fingers and may play a role in transcriptional regulation as well as cell differentiation and proliferation. The gene encoding ZNF35 maps to chromosome 3 in the region often involved in deletions or karyotypic rearrangements that have been associated with a variety of tumors including renal and lung carcinoma. The mouse homolog of ZNF35, Zfp105, is highly expressed in testis, particularly in round spermatids and pachytene spermatocytes.

REFERENCES

- Donti, E., Lanfrancone, L., Huebner, K., Pascucci, A., Venti, G., Pengue, G., Grignani, F., Croce, C.M., Lania, L. and Pelicci, P.G. 1990. Localization of the human HF.10 finger gene on a chromosome region (3p21-22) frequently deleted in human cancers. Hum. Genet. 84: 391-395.
- Lanfrancone, L., Pengue, G., Pandolfi, P.P., Salcini, A.E., Giacomucci, A., Longo, L., Donti, E., De Luca, P., La Mantia, G. and Pelicci, P.G. 1992. Structural and functional organization of the HF.10 human zinc finger gene (ZNF35) located on chromosome 3p21-p22. Genomics 12: 720-728.
- 3. Pengue, G., Cannada-Bartoli, P. and Lania, L. 1993. The ZNF35 human zinc finger gene encodes a sequence-specific DNA-binding protein. FEBS Lett. 321: 233-236.
- Kohno, T., Takayama, H., Hamaguchi, M., Takano, H., Yamaguchi, N., Tsuda, H., Hirohashi, S., Vissing, H., Shimizu, M. and Oshimura, M. 1993. Deletion mapping of chromosome 3p in human uterine cervical cancer. Oncogene 8: 1825-1832.
- Pengue, G., Calabrò, V., Cannada-Bartoli, P., De Luca, P., Esposito, T., Taillon-Miller, P., LaForgia, S., Druck, T., Huebner, K. and D'Urso, M. 1993. YAC-assisted cloning of transcribed sequences from the human chromosome 3p21 region. Hum. Mol. Genet. 2: 791-796. PMID: 8353497
- Przyborski, S.A., Knowles, B.B., Handel, M.A., Gurwitch, S.A. and Ackerman, S.L. 1999. Differential expression of the zinc finger gene Zfp105 during spermatogenesis. Mamm. Genome 9: 758-762.
- Zhong, Z., Wan, B., Qiu, Y., Ni, J., Tang, W., Chen, X., Yang, Y., Shen, S., Wang, Y., Bai, M., Lang, Q. and Yu, L. 2007. Identification of a novel human zinc finger gene, ZNF438, with transcription inhibition activity. J. Biochem. Mol. Biol. 40: 517-524.
- 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.

RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: ZNF35 (human) mapping to 3p21.32.

SOURCE

ZNF35 (X-24) is an affinity purified rabbit polyclonal antibody raised against synthetic ZNF35 peptide of human origin.

PRODUCT

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

APPLICATIONS

ZNF35 (X-24) is recommended for detection of ZNF35 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 ZNF35 siRNA (h): sc-78554, ZNF35 shRNA Plasmid (h): sc-78554-SH and ZNF35 shRNA (h) Lentiviral Particles: sc-78554-V.

Molecular Weight of ZNF35: 58 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).

STORAGE

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