ZNF395 (Y-22): sc-134187



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. As a member of the Krüppel C_2H_2 -type zinc-finger protein family, ZNF395 (zinc finger protein 395), also known as PBF (papillomavirus-binding factor) and HDBP2 (huntington disease gene regulatory region-binding protein 2), is a 513 amino acid protein that contains one C_2H_2 -type zinc finger. ZNF395 binds to the 3'-CCGG-5' sequence within the papillomavirus promoter adjacent to a RUNX1-binding motif. It has also been established that ZNF395 binds to a seven base pair region within the Huntington's disease (HD) gene promoter, an essential element for HD gene expression. ZNF395 is widely expressed and probably shuttles between the nucleus and cytoplasm.

REFERENCES

- Boeckle, S., et al. 2002. A new cellular factor recognizes E2 binding sites of papillomaviruses which mediate transcriptional repression by E2. Virology 293: 103-117.
- Tanaka, K., et al. 2004. Novel nuclear shuttle proteins, HDBP1 and HDBP2, bind to neuronal cell-specific cis-regulatory element in the promoter for the human Huntington's disease gene. J. Biol. Chem. 279: 7275-7286.
- 3. Online Mendelian Inheritance in Man, OMIM™. 2005. Johns Hopkins University, Baltimore, MD. MIM Number: 609494. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 4. Sichtig, N., et al. 2007. Papillomavirus binding factor (PBF)-mediated inhibition of cell growth is regulated by 14-3-3 β . Arch. Biochem. Biophys. 464: 90-99.
- Sichtig, N., et al. 2007. Papillomavirus binding factor binds to SAP30 and represses transcription via recruitment of the HDAC1 co-repressor complex. Arch. Biochem. Biophys. 467: 67-75.
- 6. Einstein, M.H., et al. 2007. Combined human papillomavirus DNA and human papillomavirus-like particle serologic assay to identify women at risk for high-grade cervical intraepithelial neoplasia. Int. J. Cancer 120: 55-59.
- Tsukahara, T., et al. 2008. Prognostic impact and immunogenicity of a novel osteosarcoma antigen, papillomavirus binding factor, in patients with osteosarcoma. Cancer Sci. 99: 368-375.
- 8. Tsukahara, T., et al. 2009. Scythe/BAT3 regulates apoptotic cell death induced by papillomavirus binding factor in human osteosarcoma. Cancer Sci. 100: 47-53.

CHROMOSOMAL LOCATION

Genetic locus: ZNF395 (human) mapping to 8p21.1.

SOURCE

ZNF395 (Y-22) is an affinity purified rabbit polyclonal antibody raised against synthetic ZNF395 peptide of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

ZNF395 (Y-22) is recommended for detection of ZNF395 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 ZNF395 siRNA (h): sc-77820, ZNF395 shRNA Plasmid (h): sc-77820-SH and ZNF395 shRNA (h) Lentiviral Particles: sc-77820-V.

Molecular Weight (predicted) of ZNF395: 55 kDa.

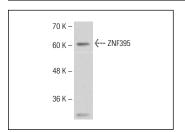
Molecular Weight (observed) of ZNF395: 61 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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



ZNF395 (Y-22): sc-134187. Western blot analysis of ZNF395 expression in Hep G2 whole cell lysate.

STORAGE

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



Try **ZNF395 (C-1): sc-515519**, our highly recommended monoclonal alternative to ZNF395 (Y-22).

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