SANTA CRUZ BIOTECHNOLOGY, INC.

DPF1 (J-16): sc-101942

BACKGROUND

DPF1 (D4, zinc and double PHD fingers family 1), also known as NEUD4 or neuro-d4, is a 353 amino acid protein that contains two PHD-type zinc fingers and belongs to the requiem/DPF family. Localized to both the nucleus and the cytoplasm, DPF1 is thought to play an important role in the regulation of neuronal cell survival. Specifically, DPF1 may function as a neurospecific transcription factor that binds DNA and participates in cell cycle progression. Human and rat DPF1 share 93% sequence identity, suggesting a conserved role between species. Multiple isoforms of DPF1 exist due to alternative splicing events.

REFERENCES

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2. Aasland, R., Gibson, T.J. and Stewart, A.F. 1995. The PHD finger: implications for chromatin-mediated transcriptional regulation. Trends Biochem. Sci. 20: 56-59.
3. Chestkov, A.V., Baka, I.D., Kost, M.V., Georgiev, G.P. and Buchman, V.L. 1996. The d4 gene family in the human genome. Genomics 36: 174-177.
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5. Ninkina, N.N., Mertsalov, I.B., Kulikova, D.A., Alimova-Kost, M.V., Simonova, O.B., Korochkin, L.I., Kiselev, S.L. and Buchman, V.L. 2001. Cerd4, third member of the d4 gene family: expression and organization of genomic locus. Mamm. Genome 12: 862-866.
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CHROMOSOMAL LOCATION

Genetic locus: DPF1 (human) mapping to 19q13.13; Dpf1 (mouse) mapping to 7 B1.

SOURCE

DPF1 (J-16) is a purified rabbit polyclonal antibody raised against DPF1 of human origin.

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.

PRODUCT

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

APPLICATIONS

DPF1 (J-16) is recommended for detection of DPF1 of mouse, rat, human and dog 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 DPF1 siRNA (h): sc-97084, DPF1 siRNA (m): sc-143155, DPF1 shRNA Plasmid (h): sc-97084-SH, DPF1 shRNA Plasmid (m): sc-143155-SH, DPF1 shRNA (h) Lentiviral Particles: sc-97084-V and DPF1 shRNA (m) Lentiviral Particles: sc-143155-V.

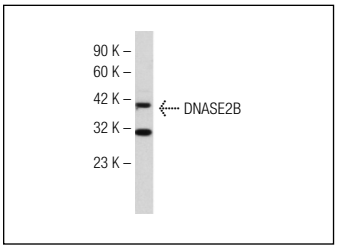
Molecular Weight of DPF1: 40 kDa.

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



DPF1 (J-16): sc-101942. Western blot analysis of DPF1 expression in Hep G2 whole cell lysate.

RESEARCH USE

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