

DPF1 (N-12): sc-132661

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 2 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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6. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 601670. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: DPF1 (human) mapping to 19q13.2; Dpf1 (mouse) mapping to 7 B1.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SOURCE

DPF1 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of DPF1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132661 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DPF1 (N-12) is recommended for detection of DPF1 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with DPF2 or DPF3.

DPF1 (N-12) is also recommended for detection of DPF1 isoforms 1 and 2 in additional species, including bovine and porcine.

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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.