SANTA CRUZ BIOTECHNOLOGY, INC.

DPF2 (WW-2): sc-101106

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DPF2 (D4, zinc and double PHD fingers family 2), also known as REQ (requiem), UBID4 or ubi-d4, is a 391 amino acid protein that is a member of the D4 domain family. DPF2, a ubiquitously expressed protein, localizes to the nucleus and contains one C_2H_2- and two PHD-type zinc finger motifs. DPF2 may function as a transcription factor that is necessary for apoptosis and may also play a role in the development and maturation of lymphoid cells. It is thought that, during apoptosis, DPF2 activity is inhibited by LRF (Leukemia/lymphoma-related factor), which is up-regulated by Integrin. This suggests that DPF2 may be a potential target for future cancer therapies that induce apoptosis in leukemia cells.

REFERENCES

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5. Wong, D.C., Wong, K.T., Nissom, P.M., Heng, C.K. and Yap, M.G. 2006. Targeting early apoptotic genes in batch and fed-batch CHO cell cultures. Biotechnol. Bioeng. 95: 350-361.

CHROMOSOMAL LOCATION

Genetic locus: DPF2 (human) mapping to 11q13.1; Dpf2 (mouse) mapping to 19 A.

SOURCE

DPF2 (WW-2) is a mouse monoclonal antibody raised against recombinant DPF2 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

DPF2 (WW-2) is recommended for detection of DPF2 of mouse, rat and 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DPF2 siRNA (h): sc-97031, DPF2 siRNA (m): sc-143156, DPF2 shRNA Plasmid (h): sc-97031-SH, DPF2 shRNA Plasmid (m): sc-143156-SH, DPF2 shRNA (h) Lentiviral Particles: sc-97031-V and DPF2 shRNA (m) Lentiviral Particles: sc-143156-V.

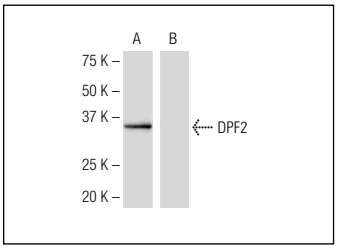
Molecular Weight of DPF2: 44 kDa.

Positive Controls: LNCaP cell lysate: sc-2231, Jurkat whole cell lysate: sc-2204 or human DPF2 transfected 293T whole cell lysate.

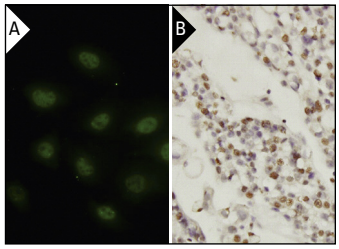
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



DPF2 (WW-2): sc-101106 Western blot analysis of DPF2 expression in human DPF2 transfected (**A**) and non-transfected (**B**) 293T whole cell lysates.



DPF2 (WW-2): sc-101106. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization (**A**). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human ovary, clear cell carcinoma tissue showing nuclear and cytoplasmic localization (**B**).

RESEARCH USE

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

PROTOCOLS

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