

ZNF827 (F-8): sc-514943

BACKGROUND

ZNF827 (zinc finger protein 827) is a 1,081 amino acid nuclear protein that contains nine C₂H₂-type zinc fingers and belongs to the Krüppel C₂H₂-type zinc-finger protein family. Existing as three alternatively spliced isoforms, ZNF827 may be involved in transcriptional regulation. The gene that encodes ZNF827 consists of around 181,000 bases and maps to human chromosome 4q31.21. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is encoded by a gene that maps to chromosome 4. FGFR-3 is also encoded by a gene located on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

CHROMOSOMAL LOCATION

Genetic locus: ZNF827 (human) mapping to 4q31.21; Zfp827 (mouse) mapping to 8 C1.

SOURCE

ZNF827 (F-8) is a mouse monoclonal antibody raised against amino acids 370-491 mapping within an internal region of ZNF827 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF827 (F-8) is available conjugated to agarose (sc-514943 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514943 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514943 PE), fluorescein (sc-514943 FITC), Alexa Fluor® 488 (sc-514943 AF488), Alexa Fluor® 546 (sc-514943 AF546), Alexa Fluor® 594 (sc-514943 AF594) or Alexa Fluor® 647 (sc-514943 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514943 AF680) or Alexa Fluor® 790 (sc-514943 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

ZNF827 (F-8) is recommended for detection of ZNF827 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF827 siRNA (h): sc-89141, ZNF827 siRNA (m): sc-155805, ZNF827 shRNA Plasmid (h): sc-89141-SH, ZNF827 shRNA Plasmid (m): sc-155805-SH, ZNF827 shRNA (h) Lentiviral Particles: sc-89141-V and ZNF827 shRNA (m) Lentiviral Particles: sc-155805-V.

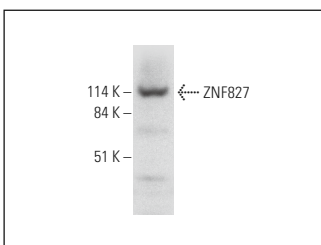
Molecular Weight of ZNF827 isoforms: 119/119/82 kDa.

Positive Controls: human liver extract: sc-363766.

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, UltraCruz® Blocking Reagent: sc-516214 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



ZNF827 (F-8): sc-514943. Western blot analysis of ZNF827 expression in human liver tissue extract.

SELECT PRODUCT CITATIONS

- Porreca, R.M., et al. 2020. TRF1 averts chromatin remodelling, recombination and replication dependent-break induced replication at mouse telomeres. *Elife* 9: e49817.
- Sahu, S.K., et al. 2022. A complex epigenome-splicing crosstalk governs epithelial-to-mesenchymal transition in metastasis and brain development. *Nat. Cell Biol.* 24: 1265-1277.

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 for detailed protocols and support products.