SANTA CRUZ BIOTECHNOLOGY, INC.

E2F-8 (9): sc-130313

BACKGROUND

E2F-8 is an 867 amino acid nuclear protein that contains two DNA-binding domains and belongs to a large family of transcription factors that includes E2F-1, E2F-2, E2F-3, E2F-4, E2F-5, E2F-6 and E2F-7. Existing as a homodimer or as a heterodimer with E2F-7, E2F-8 functions to bind DNA at the E2 recognition site, 5'-TTTC[CG]CGC-3', thereby inhibiting E2F-dependent transcription and regulating the expression of genes that are required for cell cycle progression. The gene encoding E2F-8 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: E2F8 (human) mapping to 11p15.1.

SOURCE

E2F-8 (9) is a mouse monoclonal antibody raised against recombinant E2F-8 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

E2F-8 (9) is recommended for detection of E2F-8 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 E2F-8 siRNA (h): sc-96849, E2F-8 shRNA Plasmid (h): sc-96849-SH and E2F-8 shRNA (h) Lentiviral Particles: sc-96849-V.

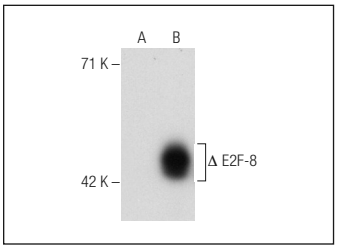
Molecular Weight of E2F-8: 100 kDa.

Positive Controls: E2F-8 (h): 293 Lysate: sc-114760.

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).

DATA



E2F-8 (9): sc-130313. Western blot analysis of E2F-8 expression in non-transfected: sc-110760 (**A**) and truncated human E2F-8 transfected: sc-114760 (**B**) 293 whole cell lysates.

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.