

## E2F-8 (S-14): sc-161540

### BACKGROUND

E2F-8 is an 867 amino acid nuclear protein that contains 2 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 E2-F-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.

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### CHROMOSOMAL LOCATION

Genetic locus: E2F8 (human) mapping to 11p15.1; E2f8 (mouse) mapping to 7 B4.

### SOURCE

E2F-8 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of E2F-8 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-161540 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-161540 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

E2F-8 (S-14) is recommended for detection of E2F-8 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 other E2F family members.

Suitable for use as control antibody for E2F-8 siRNA (h): sc-96849, E2F-8 siRNA (m): sc-143248, E2F-8 shRNA Plasmid (h): sc-96849-SH, E2F-8 shRNA Plasmid (m): sc-143248-SH, E2F-8 shRNA (h) Lentiviral Particles: sc-96849-V and E2F-8 shRNA (m) Lentiviral Particles: sc-143248-V.

E2F-8 (S-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of E2F-8: 100 kDa.

### 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.


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