



## p-E2F-1 (Ser 364): sc-130598

### BACKGROUND

The human retinoblastoma gene product plays an important role in the negative regulation of cell proliferation. Functional inactivation of Rb can be mediated either through mutation or as a consequence of interaction with DNA tumor virus encoded proteins. Of all the Rb associations described to date, the identification of a complex between Rb and the transcription factor E2F most directly implicates Rb in regulation of cell proliferation. E2F was originally identified through its role in transcriptional activation of the Adenovirus E2 promoter. Sequences that are homologous to the E2F binding site exist upstream of a number of genes that encode proteins with putative functions in the G<sub>1</sub>/S phases of the cell cycle. E2F-1 is a member of a broader family of transcription regulators including E2F-2, E2F-3, E2F-4, E2F-5 and E2F-6, each of which forms heterodimers with a second protein, DP-1, forming an "active" E2F transcriptional regulatory complex.

### REFERENCES

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### STORAGE

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

### CHROMOSOMAL LOCATION

Genetic locus: E2F1 (human) mapping to 20q11.22.

### SOURCE

p-E2F-1 (Ser 364) is a rabbit polyclonal antibody raised against a short amino acid sequence containing phosphorylated Ser 364 of E2F-1 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

p-E2F-1 (Ser 364) is recommended for detection of Ser 364 phosphorylated E2F-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for E2F-1 siRNA (h): sc-29297, E2F-1 siRNA (h2): sc-44258, E2F-1 shRNA Plasmid (h): sc-29297-SH, E2F-1 shRNA Plasmid (h2): sc-44258-SH, E2F-1 shRNA (h) Lentiviral Particles: sc-29297-V and E2F-1 shRNA (h2) Lentiviral Particles: sc-44258-V.

Molecular Weight of p-E2F-1: 60 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent) and Western Blotting Luminol Reagent: sc-2048.

### 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.