

p53CSV (G-18): sc-139543

BACKGROUND

p53CSV (p53-inducible cell-survival factor), also known as WF-1, HSPC132 or TRIAP1 (TP53 regulated inhibitor of apoptosis 1), is a 76 amino acid protein that localizes to the cytoplasm and perinuclear region of cells. Belonging to the TRIAP1/MDM35 family, p53CSV mediates cell survival by inhibiting activation of caspase-9 which prevents induction of apoptosis. p53CSV is induced significantly when cells have a low level of genotoxic stresses, but not when DNA damage is severe. Interaction between p53CSV and HSP 70 may result in modulation of the apoptotic pathway and inhibition of Apaf-1 (apoptosis protease activating factor-1) activity. Regulated by p53, p53CSV plays an important role in p53-mediated cell survival. The gene encoding p53CSV maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome.

REFERENCES

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- Scherer, S.E., et al. 2006. The finished DNA sequence of human chromosome 12. *Nature* 440: 346-351.
- Kyuno, J., et al. 2008. A functional screen for genes involved in *Xenopus* pronephros development. *Mech. Dev.* 125: 571-586.
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CHROMOSOMAL LOCATION

Genetic locus: TRIAP1 (human) mapping to 12q24.31; Triap1 (mouse) mapping to 5 F.

SOURCE

p53CSV (G-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of p53CSV of human origin.

STORAGE

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

PROTOCOLS

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

PRODUCT

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

Blocking peptide available for competition studies, sc-139543 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

p53CSV (G-18) is recommended for detection of p53CSV of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

p53CSV (G-18) is also recommended for detection of p53CSV in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for p53CSV siRNA (h): sc-95976, p53CSV siRNA (m): sc-151969, p53CSV shRNA Plasmid (h): sc-95976-SH, p53CSV shRNA Plasmid (m): sc-151969-SH, p53CSV shRNA (h) Lentiviral Particles: sc-95976-V and p53CSV shRNA (m) Lentiviral Particles: sc-151969-V.

Molecular Weight of p53CSV: 9 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 A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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