

p53CSV (B-12): sc-515801

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

1. Plaja, A., et al. 2004. Intranuclear arrangement of human chromosome 12 is reflected in metaphase chromosomes as non-random bending. *Ann. Genet.* 47: 429-432.
2. Park, W.R. and Nakamura, Y. 2005. p53CSV, a novel p53-inducible gene involved in the p53-dependent cell-survival pathway. *Cancer Res.* 65: 1197-1206.
3. Staib, F., et al. 2005. The p53 tumor suppressor network is a key responder to microenvironmental components of chronic inflammatory stress. *Cancer Res.* 65: 10255-10264.
4. Scherer, S.E., et al. 2006. The finished DNA sequence of human chromosome 12. *Nature* 440: 346-351.
5. Kyuno, J., et al. 2008. A functional screen for genes involved in *Xenopus* pronephros development. *Mech. Dev.* 125: 571-586.
6. Yu, K., et al. 2008. A precisely regulated gene expression cassette potently modulates metastasis and survival in multiple solid cancers. *PLoS Genet.* 4: e1000129.
7. Felix, R.S., et al. 2009. SAGE analysis highlights the importance of p53CSV, ddx5, mapkapk2 and ranbp2 to multiple myeloma tumorigenesis. *Cancer Lett.* 278: 41-48.

CHROMOSOMAL LOCATION

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

SOURCE

p53CSV (B-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 60-76 at the C-terminus of p53CSV of human origin.

PRODUCT

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

APPLICATIONS

p53CSV (B-12) is recommended for detection of p53CSV 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 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.

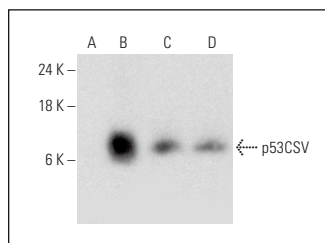
Positive Controls: p53CSV (m): 293T Lysate: sc-122332, HEL 92.1.7 cell lysate: sc-2270 or HUV-EC-C whole cell lysate: sc-364180.

RECOMMENDED SUPPORT REAGENTS

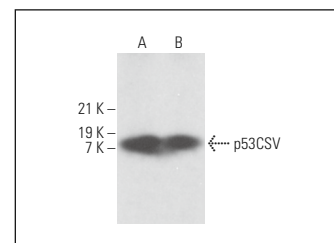
To ensure optimal results, the following support reagents are recommended:

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 L-Agarose: sc-2336 (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



p53CSV (B-12): sc-515801. Western blot analysis of p53CSV expression in non-transfected 293T: sc-117752 (A), mouse p53CSV transfected 293T: sc-122332 (B), HEL 92.1.7 (C) and NIH:OVCA3 (D) whole cell lysates.



p53CSV (B-12): sc-515801. Western blot analysis of p53CSV expression in OVCA3 (A) and HUV-EC-C (B) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Li, L., et al. 2021. Abnormal expression of TRIAP1 and its role in gestational diabetes mellitus-related pancreatic β cells. *Exp. Ther. Med.* 21: 187.

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.