

Wig-1 (Q-21): sc-134151

BACKGROUND

p53 is a DNA-binding protein that is involved in a variety of processes, including tumor suppression and apoptosis, DNA replication and repair, and cell cycle regulation. Normal cells and tissues express a low level of p53 under most circumstances, but p53 expression is induced by DNA damage and cellular stress. Wig-1 (wild type p53-induced gene 1) is a zinc finger protein that contains a putative nuclear localization signal (NLS) and is induced by p53. Wig-1 expression is increased by whole body γ irradiation in these tissues as well as in spleen and lung.

REFERENCES

1. Trepel, M., Scheduling, S., Groscurth, P., Horny, H.P., Malipiero, U., Brugger, W., Dichgans, J. and Weller, M. 1997. A new look at the role of p53 in leukemia cell sensitivity to chemotherapy. *Leukemia* 11: 1842-1849.
2. Kagawa, S., Fujiwara, T., Hizuta, A., Yasuda, T., Zhang, W.W., Roth, J.A. and Tanaka, N. 1997. p53 expression overcomes p21WAF1/CIP1-mediated G₁ arrest and induces apoptosis in human cancer cells. *Oncogene* 15: 1903-1909.
3. Varmeh-Ziaie, S., Okan, I., Wang, Y., Magnusson, K.P., Warthoe, P., Strauss, M. and Wiman, K.G. 1997. Wig-1, a new p53-induced gene encoding a zinc finger protein. *Oncogene* 15: 2699-2704.
4. Evan, G. and Littlewood, T. 1998. A matter of life and cell death. *Science* 281: 1317-1322.

CHROMOSOMAL LOCATION

Genetic locus: ZMAT3 (human) mapping to 3q26.32; Zmat3 (mouse) mapping to 3 A3.

SOURCE

Wig-1 (Q-21) is an affinity purified rabbit polyclonal antibody raised against synthetic Wig-1 peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

Wig-1 (Q-21) is recommended for detection of Wig-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 Wig-1 siRNA (h): sc-106883, Wig-1 siRNA (m): sc-155349, Wig-1 shRNA Plasmid (h): sc-106883-SH, Wig-1 shRNA Plasmid (m): sc-155349-SH, Wig-1 shRNA (h) Lentiviral Particles: sc-106883-V and Wig-1 shRNA (m) Lentiviral Particles: sc-155349-V.

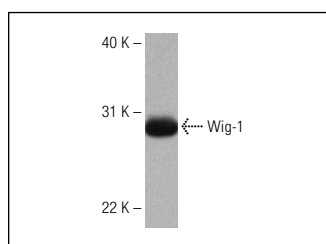
Molecular Weight of Wig-1: 32 kDa.

Positive Controls: human fetal muscle tissue extract.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Wig-1 (Q-21): sc-134151. Western blot analysis of Wig-1 expression in human fetal muscle tissue extract.

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 or our catalog for detailed protocols and support products.



Try **Wig-1 (C-1): sc-398712**, our highly recommended monoclonal alternative to Wig-1 (Q-21).