

Wig-1 (h): 293T Lysate: sc-370611

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., Scheding, 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 p21^{WAF1/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.
5. Kubbutat, M.H. and Vousden, K.H. 1998. Keeping an old friend under control: regulation of p53 stability. *Mol. Med. Today* 4: 250-256.

CHROMOSOMAL LOCATION

Genetic locus: ZMAT3 (human) mapping to 3q26.32.

PRODUCT

Wig-1 (h): 293T Lysate represents a lysate of human Wig-1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Wig-1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Wig-1 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Wig-1 (C-1): sc-398712 is recommended as a positive control antibody for Western Blot analysis of enhanced human Wig-1 expression in Wig-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

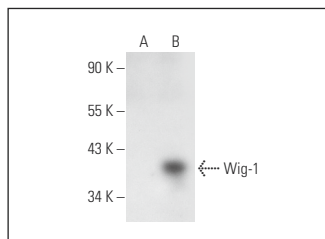
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

DATA



Wig-1 (C-1): sc-398712. Western blot analysis of Wig-1 expression in non-transfected: sc-117752 (A) and human Wig-1 transfected: sc-370611 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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