

iASPP (h2): 293T Lysate: sc-117013

BACKGROUND

Apoptosis stimulating protein of p53 (ASPP) is a family of proteins that act as regulators of apoptosis via their interactions with p53. ASPP1 and ASPP2 are both members of the ASPP family that regulate p53 by enhancing its transactivation function and binding to proapoptotic genes. iASPP, is the third member of the ASPP family and is considered inhibitory as it negatively regulates p53. iASPP is the most evolutionarily conserved inhibitor of p53 induced apoptosis. Expression of iASPP is upregulated in human breast carcinomas that express wildtype p53. Overexpression of iASPP may play a role in leukemogenesis and progression of acute leukemia. Inhibiting iASPP may be an effective strategy for treating tumors expressing wildtype p53.

REFERENCES

1. Sasaki, H., Sheng, Y., Kotsuji, F. and Tsang, B.K. 2000. Downregulation of X-linked inhibitor of apoptosis protein induces apoptosis in chemoresistant human ovarian cancer cells. *Cancer Res.* 60: 5659-5666.
2. Butt, A.J., Firth, S.M., King, M.A. and Baxter, R.C. 2000. Insulin-like growth factor binding protein-3 modulates expression of Bax and Bcl-2 and potentiates p53-independent radiation-induced apoptosis in human breast cancer cells. *J. Biol. Chem.* 275: 39174-39181.
3. Samuels-Lev, Y., O'Connor, D.J., Bergamaschi, D., Trigiante, G., Hsieh, J.K., Zhong, S., Campargue, I., Naumovski, L., Crook, T. and Lu, X. 2001. ASPP proteins specifically stimulate the apoptotic function of p53. *Mol. Cell* 8: 781-794.
4. Slee, E.A., Gillotin, S., Bergamaschi, D., Royer, C., Llanos, S., Ali, S., Jin, B., Trigiante, G. and Lu, X. 2004. The N-terminus of a novel isoform of human iASPP is required for its cytoplasmic localization. *Oncogene* 23: 9007-9016.
5. Zhang, X., Wang, M., Zhou, C., Chen, S. and Wang, J. 2004. The expression of iASPP in acute leukemias. *Leuk. Res.* 29: 179-183.
6. Bergamaschi, D., Samuels, Y., Zhong, S. and Lu, X. 2005. MDM2 and MDMX prevent ASPP1 and ASPP2 from stimulating p53 without targeting p53 for degradation. *Oncogene* 24: 3836-3841.

CHROMOSOMAL LOCATION

Genetic locus: PPP1R13L (human) mapping to 19q13.32.

PRODUCT

iASPP (h2): 293T Lysate represents a lysate of human iASPP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

iASPP (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive iASPP antibodies. Recommended use: 10-20 µl per lane.

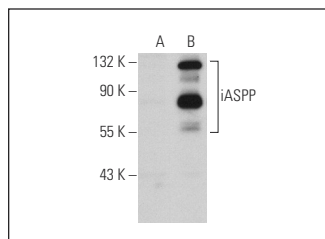
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

iASPP (2808C5a): sc-81297 is recommended as a positive control antibody for Western Blot analysis of enhanced human iASPP expression in iASPP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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



iASPP (2808C5a): sc-81297. Western blot analysis of iASPP expression in non-transfected: sc-117752 (A) and human iASPP transfected: sc-117013 (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.