

iASPP (H-300): sc-98538

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; Ppp1r13l (mouse) mapping to 7 A3.

SOURCE

iASPP (H-300) is a rabbit polyclonal antibody raised against amino acids 107-395 mapping within an internal region of iASPP of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

iASPP (H-300) is recommended for detection of iASPP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

iASPP (H-300) is also recommended for detection of iASPP in additional species, including bovine.

Suitable for use as control antibody for iASPP siRNA (h): sc-72100, iASPP siRNA (m): sc-72105, iASPP shRNA Plasmid (h): sc-72100-SH, iASPP shRNA Plasmid (m): sc-72105-SH, iASPP shRNA (h) Lentiviral Particles: sc-72100-V and iASPP shRNA (m) Lentiviral Particles: sc-72105-V.

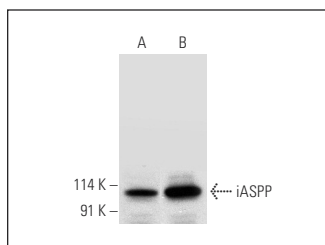
Molecular Weight of iASPP: 89 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, MCF7 whole cell lysate: sc-2206 or NCI-H1299 whole cell lysate: sc-364234.

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). 3) 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.

DATA



iASPP (H-300): sc-98538. Western blot analysis of iASPP expression in MCF7 (A) and NCI-H1299 (B) whole cell lysates.

RESEARCH USE

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

MONOS
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Try **iASPP (A-2): sc-398566** or **iASPP (2808C5a): sc-81297**, our highly recommended monoclonal alternatives to iASPP (H-300).