

# iASPP (A-2): sc-398566

## 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., et al. 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., et al. 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., et al. 2001. ASPP proteins specifically stimulate the apoptotic function of p53. *Mol. Cell* 8: 781-794.
4. Slee, E.A., et al. 2004. The N-terminus of a novel isoform of human iASPP is required for its cytoplasmic localization. *Oncogene* 23: 9007-9016.
5. Zhang, X., et al. 2005. The expression of iASPP in acute leukemias. *Leuk. Res.* 29: 179-183.

## CHROMOSOMAL LOCATION

Genetic locus: PPP1R13L (human) mapping to 19q13.32; Ppp1r13l (mouse) mapping to 7 A3.

## SOURCE

iASPP (A-2) is a mouse monoclonal antibody raised against amino acids 107-395 mapping within an internal region of iASPP of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

iASPP (A-2) is available conjugated to agarose (sc-398566 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398566 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398566 PE), fluorescein (sc-398566 FITC), Alexa Fluor® 488 (sc-398566 AF488), Alexa Fluor® 546 (sc-398566 AF546), Alexa Fluor® 594 (sc-398566 AF594) or Alexa Fluor® 647 (sc-398566 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398566 AF680) or Alexa Fluor® 790 (sc-398566 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## RESEARCH USE

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

## APPLICATIONS

iASPP (A-2) is recommended for detection of iASPP 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 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.

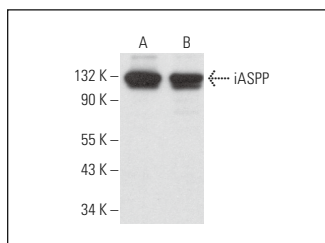
Molecular Weight of iASPP: 89 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or HeLa whole cell lysate: sc-2200.

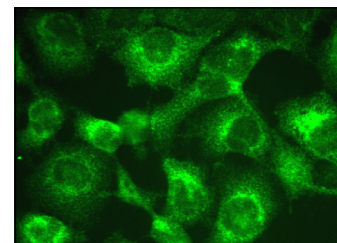
## RECOMMENDED SUPPORT REAGENTS

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 A/G PLUS-Agarose: sc-2003 (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



iASPP (A-2): sc-398566. Western blot analysis of iASPP expression in MCF7 (A) and HeLa (B) whole cell lysates.



iASPP (A-2): sc-398566. Immunofluorescence staining of formalin-fixed A-431 cells showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

1. Meignié, A., et al. 2021. Proteomic analysis uncovers measles virus protein C interaction with p65/iASPP protein complex. *Mol. Cell. Proteomics* 20: 100049.

## STORAGE

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

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