

PIPPIN (h): 293T Lysate: sc-116980

BACKGROUND

PIPPIN, also known as CSDC2 (cold shock domain containing C2, RNA binding), is a Y-box protein (also called cold-shock (CSD) domain-containing protein) and belongs to a family of highly conserved RNA-binding transcriptional regulators. Predominantly expressed in brain cells and localizing to the nucleus and the cytoplasm, PIPIN contains two RNA-binding motifs, namely PIP1 and PIP2, and one CSD domain. PIPIN functions as a nucleic acid binding regulatory factor and is believed to participate in brain maturation. More specifically, PIPIN binds to the 3'-UTR ends of the mRNAs encoding Histone H1 and Histone H3.3. This interaction requires all of the PIPIN domains to work in concert as one functional protein. In addition, PIPIN can be sumoylated in a thyroid hormone (T3)-dependent manner. This suggests that PIPIN modification in response to extracellular stimuli may modulate the regulation of protein synthesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: (human) mapping to 22q13.2.

PRODUCT

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

APPLICATIONS

PIPPIN (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PIPIN 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.

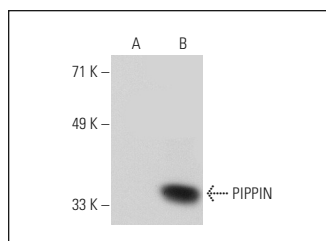
PIPPIN (473.1): sc-101108 is recommended as a positive control antibody for Western Blot analysis of enhanced human PIPIN expression in PIPIN transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

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

1) Western Blotting: use m-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.

DATA



PIPPIN (473.1): sc-101108. Western blot analysis of PIPIN expression in non-transfected: sc-117752 (A) and human PIPIN transfected: sc-116980 (B) 293T whole cell lysates.

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.

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.