SANTA CRUZ BIOTECHNOLOGY, INC.

PTBP-2 (h): 293T Lysate: sc-176393

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PTBP-2 (polypyrimidine tract-binding protein-2), also known as PTB or nPTB (neural polypyrimidine tract-binding protein), is a member of the polypyrimidine tract-binding family of proteins. Predominantly expressed in brain, but also found in heart and skeletal muscle, PTBP-2 localizes to the nucleus and contains four RRM (RNA recognition motif) domains. PTBP-2 functions as an RNA-binding protein associated in a complex that is involved in the regulation of exon splicing and the stabilization of mRNAs in the cytoplasm. Six isoforms exist for PTBP-2 due to alternative splicing events. Isoforms 1 and 2 (also known as nPTB1 and nPTB2/PTBPLP-L, respectively) are neuronal-specific. Isoforms 3 and 4 (also known as nPTB3/PTBPLP-L and nPTB4, respectively) are found in non-neuronal tissues, as are isoforms 5 and 6 (also known as nPTB5/nPTB7/PTBPLP-S and nPTB6/nPTB8/PTBPLP-S, respectively). The existence of various isoforms may function to modulate the RNA-binding properties of PTBP-2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PTBP2 (human) mapping to 1p21.3.

RESEARCH USE

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

PRODUCT

PTBP-2 (h): 293T Lysate represents a lysate of human PTBP-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

PTBP-2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PTBP-2 antibodies. Recommended use: 10-20 µl per lane.

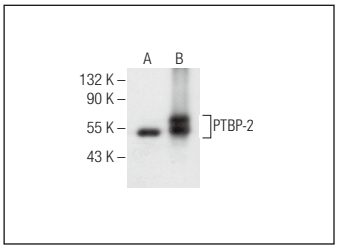
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PTBP-2 (A-10): sc-376316 is recommended as a positive control antibody for Western Blot analysis of enhanced human PTBP-2 expression in PTBP-2 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



PTBP-2 (A-10): sc-376316. Western blot analysis of PTBP-2 expression in non-transfected: sc-117752 (**A**) and human PTBP-2 transfected: sc-176393 (**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.

PROTOCOLS

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