SANTA CRUZ BIOTECHNOLOGY, INC.

PTBP-2 (N-14): sc-103847

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.

CHROMOSOMAL LOCATION

Genetic locus: PTBP2 (human) mapping to 1p21.3; Ptbp2 (mouse) mapping to 3 G1.

SOURCE

PTBP-2 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PTBP-2 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.

Blocking peptide available for competition studies, sc-103847 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

PTBP-2 (N-14) is recommended for detection of PTBP-2 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).

PTBP-2 (N-14) is also recommended for detection of PTBP-2 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for PTBP-2 siRNA (h): sc-78824, PTBP-2 siRNA (m): sc-106461, PTBP-2 shRNA Plasmid (h): sc-78824-SH, PTBP-2 shRNA Plasmid (m): sc-106461-SH, PTBP-2 shRNA (h) Lentiviral Particles: sc-78824-V and PTBP-2 shRNA (m) Lentiviral Particles: sc-106461-V.

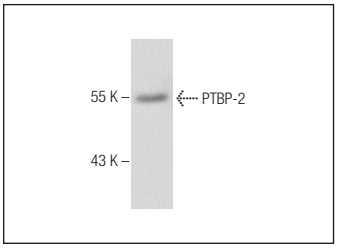
Molecular Weight of PTBP-2: 60 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, Y79 nuclear extract: sc-2126 or Y79 cell lysate: sc-2240.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PTBP-2 (N-14): sc-103847. Western blot analysis of PTBP-2 expression in Y79 nuclear extract.

STORAGE

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

PROTOCOLS

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