



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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

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

- Markovtsov, V., Nikolic, J.M., Goldman, J.A., Turck, C.W., Chou, M.Y. and Black, D.L. 2000. Cooperative assembly of an hnRNP complex induced by a tissue-specific homolog of polypyrimidine tract-binding protein. *Mol. Cell Biol.* 20: 7463-7479.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608449. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Rahman, L., Bliskovski, V., Kaye, F.J. and Zajac-Kaye, M. 2004. Evolutionary conservation of a 2 kb intronic sequence flanking a tissue-specific alternative exon in the PTBP2 gene. *Genomics* 83: 76-84.
- Xu, M. and Hecht, N.B. 2007. Polypyrimidine tract-binding protein-2 stabilizes phosphoglycerate kinase 2 mRNA in murine male germ cells by binding to its 3'UTR. *Biol. Reprod.* 76: 1025-1033.
- Coutinho-Mansfield, G.C., Xue, Y., Zhang, Y. and Fu, X.D. 2007. PTB/nPTB switch: a posttranscriptional mechanism for programming neuronal differentiation. *Genes Dev.* 21: 1573-1577.
- Boutz, P.L., Stoilov, P., Li, Q., Lin, C.H., Chawla, G., Ostrow, K., Shiue, L., Ares, M. and Black, D.L. 2007. A posttranscriptional regulatory switch in polypyrimidine tract-binding proteins reprograms alternative splicing in developing neurons. *Genes Dev.* 21: 1636-1652.
- Makeyev, E.V., Zhang, J., Carrasco, M.A. and Maniatis, T. 2007. The microRNA miR-124 promotes neuronal differentiation by triggering brain-specific alternative pre-mRNA splicing. *Mol. Cell* 27: 435-448.
- Xu, M. and Hecht, N.B. 2008. MSY2 and polypyrimidine tract-binding protein-2 stabilize mRNAs in the mammalian testis. *Int. J. Androl.* 31: 457-461.

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.

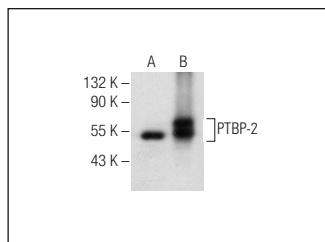
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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.