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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) 

NPWBP (m): 293T Lysate: sc-122117

BACKGROUND

NPWBP (Npw38-binding protein), also known as WW domain-binding protein 11 and SH3 domain-binding protein SNP70, is a 641 amino acid protein that contains 2 proline-rich regions that bind to the WW domain of PQBP-1, a transcription repressor that associates with polyglutamine tract-containing transcription regulators. Highly expressed in kidney, pancreas, brain, placenta, heart and skeletal muscle, NPWBP is predominantly located within the nucleus with granular heterogenous distribution. However, during mitosis NPWBP is distributed in the cytoplasm. In the nucleus, NPWBP co-localizes with two mRNA splicing factors, SC35 and U2 snRNP B, which suggests that it plays a role in pre-mRNA processing.

REFERENCES

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7. Huang, X., Beullens, M., Zhang, J., Zhou, Y., Nicolaescu, E., Lesage, B., Hu, Q., Wu, J., Bollen, M. and Shi, Y. 2009. Structure and function of the two tandem WW domains of the pre-mRNA splicing factor FBP21 (formin-binding protein 21). *J. Biol. Chem.* 284: 25375-25387.

CHROMOSOMAL LOCATION

Genetic locus: Wbp11 (mouse) mapping to 6 G1.

PRODUCT

NPWBP (m): 293T Lysate represents a lysate of mouse NPWBP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

NPWBP (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NPWBP antibodies. Recommended use: 10-20 µl per lane.

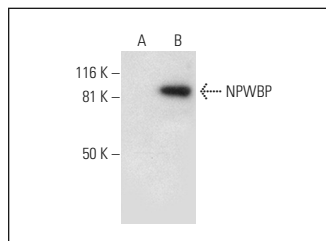
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NPWBP (F-1): sc-393556 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse NPWBP expression in NPWBP 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



NPWBP (F-1): sc-393556. Western blot analysis of NPWBP expression in non-transfected: sc-117752 (A) and mouse NPWBP transfected: sc-122117 (B) 293T whole cell lysates.

PROTOCOLS

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