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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

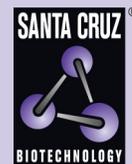
T. +43(0)1 489 3961-0

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) 



PKN β (m): 293T Lysate: sc-127345

BACKGROUND

PKN β (protein kinase PKN β), also known as PKN3, is a protein kinase-related molecule belonging to the AGC serine/threonine protein kinase family. It contains one protein kinase domain, three REM repeats and one AGC-kinase domain at its C-terminus. PKN β is not expressed in normal adult tissues but is found in prostate tumors and various other cancer cell lines localizing to the nucleus and the perinuclear region of the cytoplasm. PKN β may play a role in the invasiveness of malignant prostate cancer. This is suggested by the impaired growth and reduced metastases formation after knockdown of PKN β expression in mouse prostate tumor cells. PKN β expression and activity is regulated by PI 3-kinase. In humans, the phosphorylation of PKN β at Thr 718 and Thr 860 is required for the activation of its kinase activity.

REFERENCES

1. Oishi, K., et al. 1999. Identification and characterization of PKN β , a novel isoform of protein kinase PKN: expression and arachidonic acid dependency are different from those of PKN α . *Biochem. Biophys. Res. Commun.* 261: 808-814.
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5. Leenders, F., et al. 2004. PKN3 is required for malignant prostate cell growth downstream of activated PI 3-kinase. *EMBO J.* 23: 3303-3313.
6. Mukai, H. and Ono, Y. 2006. Purification and kinase assay of PKN. *Methods Enzymol.* 406: 234-250.
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CHROMOSOMAL LOCATION

Genetic locus: Pkn3 (mouse) mapping to 2 B.

PRODUCT

PKN β (m): 293T Lysate represents a lysate of mouse PKN β transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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.

PROTOCOLS

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

APPLICATIONS

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

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

RESEARCH USE

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