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PC-3 Cell Lysate: sc-2220

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. PC-3 Whole Cell Lysate is derived from the PC-3 cell line using a procedure that ensures protein integrity and lot-to-lot reproducibility. All lysates are tested by Western Blotting to assure that each one contains the expected concentration and assortment of proteins. Numerous antibodies directed against a wide array of mammalian proteins are used to test each lysate.

The PC-3 cell line was initiated from a bone metastasis of a grade IV prostatic adenocarcinoma from a 62 year old male Caucasian. The cells exhibit low acid phosphatase and testosterone-5- α -reductase activities. The line is near-triploid with a modal number of 62 chromosomes. There are nearly 20 marker chromosomes commonly found in each cell; normal N2, N3, N4, N5, N12 and N15 are not found. No normal Y chromosomes could be detected by Q-band analysis.

REFERENCES

1. Kaighn, M.E., Narayan, K.S., Ohnuki, Y., Lechner, J.F. and Jones, L.W. 1979. Establishment and characterization of a human prostatic carcinoma cell line (PC-3). *Invest. Urol.* 17: 16-23.
2. Ohnuki, Y., Marnell, M.M., Babcock, M.S., Lechner, J.F. and Kaighn, M.E. 1980. Chromosomal analysis of human prostatic adenocarcinoma cell lines. *Cancer Res.* 40: 524-534.
3. Chen, T.R. 1993. Chromosome identity of human prostate cancer cell lines, PC-3 and PPC-1. *Cytogenet. Cell Genet.* 62: 183-184.
4. Sheng, S., Carey, J., Seftor, E.A., Dias, L., Hendrix, M.J. and Sager, R. 1996. Maspin acts at the cell membrane to inhibit invasion and motility of mammary and prostatic cancer cells. *Proc. Natl. Acad. Sci. USA* 93: 11669-11674.

SOURCE

PC-3 Whole Cell Lysate is derived from the PC-3 cell line.

Organism:	<i>Homo sapiens</i> (human)
Organ:	Prostate
Disease:	Adenocarcinoma
Tumor Stage:	Grade IV
Derived from metastatic site:	Bone
Growth Properties:	Adherent (the cells form clusters in soft agar and can be adapted to suspension growth)

PRODUCT

Each vial contains 500 μ g protein in 200 μ l of an SDS-PAGE Western Blotting buffer, which consists of 100 μ l RIPA Lysis Buffer and 100 μ l Electrophoresis Buffer, 2X.

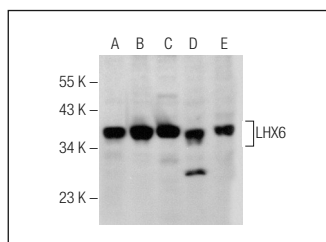
APPLICATIONS

PC-3 Whole Cell Lysate is provided as a Western Blotting positive control. Recommended use is 50 μ g (20 μ l) per lane. Sample vial should be boiled once prior to use.

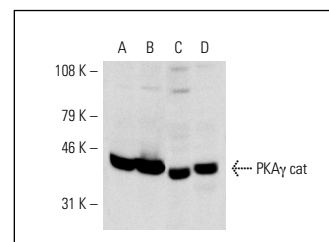
PREPARATION METHOD

Cells are cultured with appropriate media conditions and allowed to reach a confluency of 75%. Cells are lysed using the RIPA Lysis Buffer System (sc-24948). The BCA Protein Assay Kit (sc-202389) is used to determine the total protein concentration. The lysate is adjusted to contain 500 μ g of total cellular protein in 100 μ l before adding an equal volume of Electrophoresis Sample Buffer, 2X (sc-24945). Final concentration of product is 500 μ g total protein in a final volume of 200 μ l.

DATA



LHX6 (JJ-06): sc-81970. Western blot analysis of LHX6 expression in NIH/3T3 (A), MDA-MB-231 (B), T-47D (C), U87-MG (D) and PC-3 (E) whole cell lysates.



PKA γ cat (A-2): sc-28315. Western blot analysis of PKA γ cat expression in MCF7 (A), PC-3 (B), NIH/3T3 (C) and KNRK (D) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Romero, M., Ortega, A., Izquierdo, A., López-Luna, P. and Bosch, R.J. 2010. Parathyroid hormone-related protein induces hypertrophy in podocytes via TGF- β 1 and p27Kip1: implications for diabetic nephropathy. *Nephrol. Dial. Transplant.* 25: 2447-2457.
2. Haubold, M., Weise, A., Stephan, H. and Dünker, N. 2010. Bone morphogenetic protein 4 (BMP4) signaling in retinoblastoma cells. *Int. J. Biol. Sci.* 6: 700-715.

STORAGE

Store at -20° C; stable for one year from the date of shipment. Non-hazardous. No MSDS required. Minimize repeated freezing and thawing.

RESEARCH USE

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

PROTOCOLS

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