SANTA CRUZ BIOTECHNOLOGY, INC.

SW-13 Cell Lysate: sc-24778

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. SW-13 Cell Lysate is derived from the SW-13 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. Electron microscopic studies of the SW-13 cell line show many bulb gap junctions (BGJ).

REFERENCES

1. Lasfargues, E.Y. and Ozzello, L. 1958. Cultivation of human breast carcinomas. J. Natl. Cancer Inst. 21: 1131-1147.
2. Johnson, R.G. and Sheridan, J.D. 1971. Junctions between cancer cells in culture: ultrastructure and permeability. Science 174: 717-719.
3. Pinto da Silva, P. and Gilula, N.B. 1972. Gap junctions in normal and transformed fibroblasts in culture. Exp. Cell Res. 71: 393-401.
4. Leibovitz, A., McCombs, W.M., Johnston, D., McCoy, C.E. and Stinson, J.C. 1973. New human cancer cell culture lines. I. SW-13, small-cell carcinoma of the adrenal cortex. J. Natl. Cancer Inst. 51: 691-697.
5. Fogh, J., Wright, W.C. and Loveless, J.D. 1977. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214.
6. Fogh, J., Fogh, J.M. and Orfeo, T. 1977. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226.

SOURCE

SW-13 Cell Lysate was derived from the SW-13 cell line.

Organism:	*Homo sapiens* (human)
Organ:	Adrenal gland
Tissue:	Cortex
Tumor Stage:	Grade IV
Disease:	Primary small cell carcinoma

PRODUCT

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

APPLICATIONS

SW-13 Cell Lysate is provided as a Western Blotting positive control. Recommended use is 50 µg (20 µl) per lane. Sample vial should be boiled once prior to use.

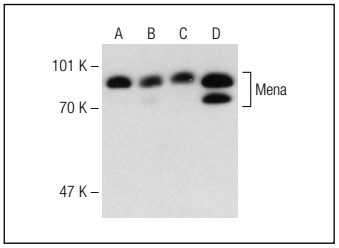
STORAGE

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

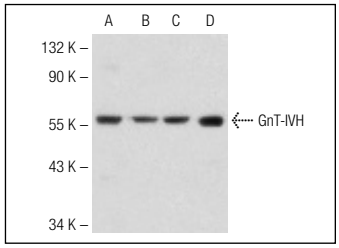
PREPARATION METHOD

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 µg of total cellular protein in 100 µl before adding an equal volume of Electrophoresis Sample Buffer, 2X (sc-24945). Final concentration of product is 500 µg total protein in a final volume of 200 µl.

DATA



Mena (21): sc-135988. Western blot analysis of Mena expression in SW-13 (**A**), EGF treated A-431 (**B**), EGF treated MDA-MB-468 (**C**) and T98G (**D**) whole cell lysates.



GnT-IVH (S-13): sc-161673. Western blot analysis of GnT-IVH expression in A-10 (**A**), SW-13 (**B**) and NTERA-2 cl.D1 (**C**) whole cell lysates and mouse skeletal muscle tissue extract (**D**).

SELECT PRODUCT CITATIONS

1. Sirach, E., et al. 2007. KLF6 transcription factor protects hepatocellular carcinoma-derived cells from apoptosis. Cell Death Differ. 14: 1202-1210.
2. Cousin, B., et al. 2009. Adult stromal cells derived from human adipose tissue provoke pancreatic cancer cell death both *in vitro* and *in vivo*. PLoS ONE 4: e6278.

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.