

BC₃H1 Cell Lysate: sc-2299

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. BC₃H1 Whole Cell Lysate is derived from the BC₃H1 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.

Recent data suggest that BC₃H1 cells may more closely resemble cells in an arrested state of skeletal muscle differentiation than smooth muscle cells. BC₃H1 expresses H-2k antigen and acetylcholine receptor. Tested and found negative for ectromelia virus (mousepox).

REFERENCES

1. Schubert, D., Harris, A.J., Devine, C.E. and Heinemann, S. 1974. Characterization of a unique muscle cell line. *J. Cell Biol.* 61: 398-413.
2. Patrick, J., McMillan, J., Wolfson, H. and O'Brien, J.C. 1977. Acetylcholine receptor metabolism in a nonfusing muscle cell line. *J. Biol. Chem.* 252: 2143-2153.
3. Taubman, M.B., Smith, C.W., Izumo, S., Grant, J.W., Endo, T., Andreadis, A. and Nadal-Ginard, B. 1989. The expression of sarcomeric muscle-specific contractile protein genes in BC₃H1 cells: BC₃H1 cells resemble skeletal myoblasts that are defective for commitment to terminal differentiation. *J. Cell Biol.* 108: 1799-1806.

SOURCE

BC₃H1 Whole Cell Lysate is derived from the BC₃H1 cell line.

Organism: *Mus musculus* (mouse)
Strain: C₃H
Tissue: Brain
Disease: Tumor
Cell Type: Methylnitrosourea induced
Morphology: Smooth muscle like
Growth Properties: Adherent

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

BC₃H1 Whole 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.

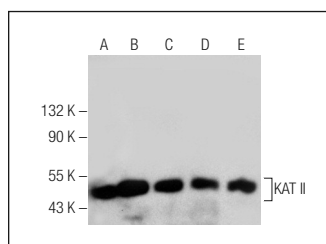
STORAGE

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

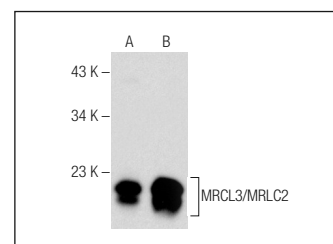
PREPARATION METHOD

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



KAT II (G-4): sc-377158. Western blot analysis of KAT II expression in EOC 20 (A), IMR-32 (B), H4 (C), SK-N-SH (D) and BC₃H1 (E) whole cell lysates.



MRCL3/MRLC2 (G-5): sc-376677. Western blot analysis of MRCL3/MRLC2 expression in BC₃H1 (A) and A-10 (B) whole cell lysates.

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.