SANTA CRUZ BIOTECHNOLOGY, INC.

C32 Whole Cell Lysate: sc-2205

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. C32 Whole Cell Lysate is derived from the C32 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 C32 cell line was originally derived from a 53 year old Caucasian male.

REFERENCES

1. Chen, T.R. and Shaw, M.W. 1973. Stable chromosome changes in human malignant melanoma. Cancer Res. 33: 2042-2047.
2. Chen, T.R. 1978. Evolution *in vitro* of stemlines with minimal karyotypic deviations in a human heteroploid cell line. J. Natl. Cancer Inst. 61: 277-284.

SOURCE

C32 Whole Cell Lysate is derived from the C32 cell line.

Organism:	*Homo sapiens* (human)
Tissue:	Skin
Disease:	Melanoma, amelanotic
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

C32 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.

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.

STORAGE

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

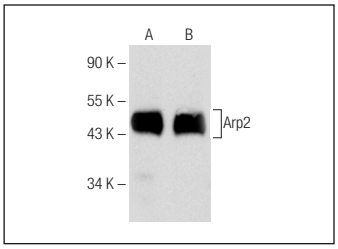
PROTOCOLS

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

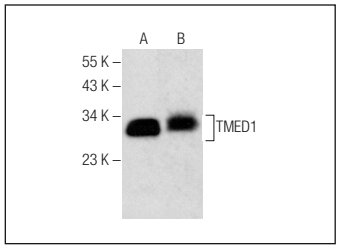
RESEARCH USE

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

DATA



Arp2 (B-6): sc-376698. Western blot analysis of Arp2 expression in C32 (**A**) and HeLa (**B**) whole cell lysates.



TMED1 (F-9): sc-377321. Western blot analysis of TMED1 expression in C32 (**A**) and BT-20 (**B**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Yin, Y., et al. 2004. Human RAD9 checkpoint control/proapoptotic protein can activate transcription of p21. Proc. Natl. Acad. Sci. USA 101: 8864-8869.
2. Lefèvre, P.L., et al. 2011. Polyamines are implicated in the emergence of the embryo from obligate diapause. Endocrinology 152: 1627-1639.