SANTA CRUZ BIOTECHNOLOGY, INC.

NCI-H460 Whole Cell Lysate: sc-364235

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. NCI-H460 Whole Cell Lysate is derived from the NCI-H460 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 NCI-H460 cell line was derived by A.F. Gazdar and associates in 1982 from the pleural fluid of a patient with large cell cancer of the lung. The cells express easily detectable p53 mRNA at levels comparable to normal lung tissue, and exhibit no gross structural DNA abnormalities. NCI-H460 cells stain positively for keratin and vimentin but are negative for neurofilament triplet protein.

REFERENCES

1. Banks-Schlegel, S.P., Gazdar, A.F. and Harris, C.C. 1985. Intermediate filament and cross-linked envelope expression in human lung tumor cell lines. Cancer Res. 45: 1187-1197.
2. Takahashi, T., Nau, M.M., Chiba, I., Birrer, M.J., Rosenberg, R.K., Vinocour, M., Levitt, M., Pass, H., Gazdar, A.F. and Minna, J.D. 1989. p53: a frequent target for genetic abnormalities in lung cancer. Science 246: 491-494.

SOURCE

NCI-H460 Whole Cell Lysate is derived from the NCI-H460 cell line.

Organism:	*Homo sapiens* (human)
Tissue:	Lung
Disease:	Carcinoma; large cell lung cancer
Cell Type:	Epithelial
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

NCI-H460 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.

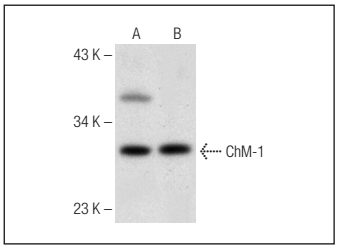
PREPARATION METHOD

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.

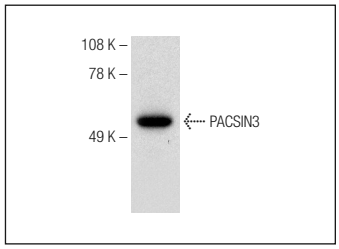
STORAGE

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

DATA



ChM-1 (H-300): sc-33563. Western blot analysis of ChM-1 expression in NCI-H460 (**A**) and HL-60 (**B**) whole cell lysates.



PACSIN3 (C-3): sc-166923. Western blot analysis of PACSIN3 expression in NCI-H460 whole cell lysate.

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.