SANTA CRUZ BIOTECHNOLOGY, INC.

HCT-116 Whole Cell Lysate: sc-364175

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. HCT-116 Whole Cell Lysate is derived from the HCT-116 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.

HCT-116 cells are positive for transforming growth factor β1 (TGFβ1) and β2 (TGFβ2) expression. This line has a mutation in codon 13 of the Ras proto-oncogene, and can be used as a positive control for PCR assays of mutation in this codon. The cells are positive for keratin by immunoperoxidase staining.

REFERENCES

1. Brattain, M.G., Fine, W.D., Khaled, F.M., Thompson, J. and Brattain, D.E. 1981. Heterogeneity of malignant cells from a human colonic carcinoma. Cancer Res. 41: 1751-1756.
2. Sun, L., Wu, S., Coleman, K., Fields, K.C., Humphrey, L.E. and Brattain, M.G. 1994. Autocrine transforming growth factor-β1 and β2 expression is increased by cell crowding and quiescence in colon carcinoma cells. Exp. Cell Res. 214: 215-224.
3. Schroy, P.C., Brown-Shimer, S., Kim, K., Johnson, K.A., Murnane, M.J., Yang, S., O'Brien, M.J., Carney, W.P. and Kupchik, H.Z. 1995. Detection of p21ras mutations in colorectal adenomas and carcinomas by enzyme-linked immunosorbent assay. Cancer 76: 201-209.

SOURCE

HCT-116 Whole Cell Lysate is derived from the HCT-116 cell line.

Organism:	*Homo sapiens* (human)
Tissue:	Colon
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

HCT-116 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.

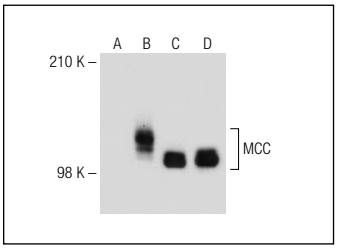
RESEARCH USE

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

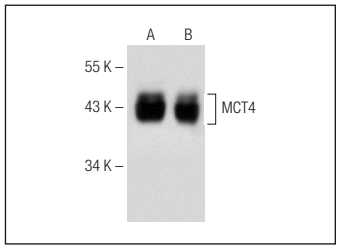
PREPARATION METHOD

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



MCC (1): sc-135982. Western blot analysis of MCC expression in non-transfected 293T: sc-117752 (**A**), human MCC transfected 293T: sc-177522 (**B**), NIH/3T3 (**C**) and HCT-116 (**D**) whole cell lysates.



MCT4 (H-90): sc-50329. Western blot analysis of MCT4 expression in HCT 116 (**A**) and HeLa (**B**) whole cell lysates.

PROTOCOLS

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