SANTA CRUZ BIOTECHNOLOGY, INC.

COLO 205 Whole Cell Lysate: sc-364177

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. COLO 205 Whole Cell Lysate is derived from the COLO 205 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 COLO 205 line was isolated in 1975 by T.U. Semple, et al. from ascitic fluid of a 70 year old Caucasian male with carcinoma of the colon. The patient had been treated with 5-fluorouracil for 4-6 weeks before removal of the fluid specimen. The cells are CSAp negative ($CSAp^-$). The line was derived from tissue from the same patient as COLO 201. The cells are positive for keratin by immunoperoxidase staining. COLO 205 cells express a 36 kDa cell surface glycoprotein related to the GA733-2 tumor-associated antigen.

REFERENCES

1. Semple, T.U., Quinn, L.A., Woods, L.K. and Moore, G.E. 1978. Tumor and lymphoid cell lines from a patient with carcinoma of the colon for a cytotoxicity model. Cancer Res. 38: 1345-1355.
2. Trainer, D.L., Kline, T., McCabe, F.L., Faucette, L.F., Feild, J., Chaikin, M., Anzano, M., Rieman, D., Hoffstein, S. and Li, D.J. 1988. Biological characterization and oncogene expression in human colorectal carcinoma cell lines. Int. J. Cancer 41: 287-296.
3. Gastl, G.A., Abrams, J.S., Nanus, D.M., Oosterkamp, R., Silver, J., Liu, F., Chen, M., Albino, A.P. and Bander, N.H. 1993. Interleukin-10 production by human carcinoma cell lines and its relationship to interleukin-6 expression. Int. J. Cancer 55: 96-101.

SOURCE

COLO 205 Whole Cell Lysate is derived from the COLO 205 cell line.

Organism:	*Homo sapiens* (human)
Tissue:	Colon
Cell Type:	Epithelial
Disease:	Colorectal adenocarcinoma
Growth Properties:	Adherent and suspension

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

COLO 205 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.

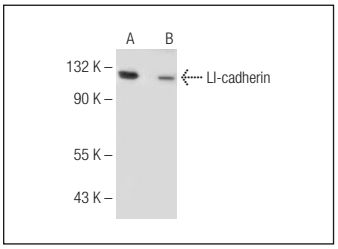
STORAGE

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



LI-cadherin (C-17): sc-6978. Western blot analysis of LI-cadherin expression in Jurkat (**A**) and COLO 205 (**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.