

WiDr Cell Lysate: sc-24779

BACKGROUND

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

Although deposited as a colon adenocarcinoma line established from a 78 year old female, DNA fingerprinting has shown the WiDr line to be a derivative of HT-29. The cells are negative for colon antigen 3 expression and positive for keratin by immunoperoxidase staining. WiDr cells expressed p53 antigen (the p53 produced has a G→A mutation resulting in Arg→His at position 273). Growth of WiDr cells is inhibited by tumor necrosis factor α (TNF- α). Inhibitors of dihydrofolate reductase are highly cytotoxic to WiDr cells.

REFERENCES

1. Noguchi, P., Wallace, R., Johnson, J., Earley, E.M., O'Brien, S., Ferrone, S., Pellegrino, M.A., Milstien, J., Needy, C., Browne, W. and Petricciani, J. 1979. Characterization of the WiDr: a human colon carcinoma cell line. *In Vitro* 15: 401-408.
2. Sugarman, B.J., Aggarwal, B.B., Hass, P.E., Figari, I.S., Palladino, M.A. and Shepard, H.M. 1985. Recombinant human tumor necrosis factor- α : effects on proliferation of normal and transformed cells *in vitro*. *Science*. 230: 943-945.
3. Chen, T.R., Drabkowski, D., Hay, R.J., Macy, M. and Peterson, W. 1987. WiDr is a derivative of another colon adenocarcinoma cell line, HT-29. *Cancer Genet. Cytogenet.* 27: 125-134.

SOURCE

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

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

PRODUCT

Each vial contains 500 μ g protein in 200 μ l of an SDS-PAGE Western Blotting buffer, which consists of 100 μ l RIPA Lysis Buffer and 100 μ l Electrophoresis Buffer, 2X.

APPLICATIONS

WiDr Cell Lysate is provided as a Western Blotting positive control. Recommended use is 50 μ g (20 μ l) per lane. Sample vial should be boiled once prior to use.

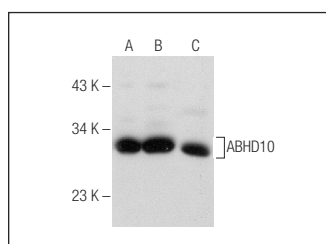
STORAGE

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

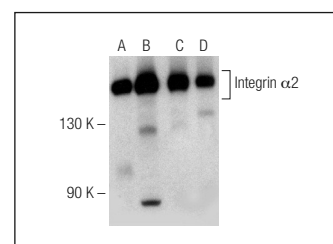
PREPARATION METHOD

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 μ g of total cellular protein in 100 μ l before adding an equal volume of Electrophoresis Sample Buffer, 2X (sc-24945). Final concentration of product is 500 μ g total protein in a final volume of 200 μ l.

DATA



ABHD10 (T-13): sc-99755. Western blot analysis of ABHD10 expression in Y79 (A), WiDr (B) and Hs 732.Sk/Mu (C) whole cell lysates.



Integrin α 2 (C-9): sc-74466. Western blot analysis of Integrin α 2 expression in human platelet extract (A), HCT-116 (B), WiDr (C) and HeLa (D) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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