

Caco-2 Cell Lysate: sc-2262

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. Caco-2 Whole Cell Lysate is derived from the Caco-2 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.

Caco-2 cell line was established from a 72 year old male Caucasian. Upon reaching confluence, the cells express characteristics of enterocytic differentiation. Caco-2 cells express retinoic acid binding protein I and retinol binding protein II.

REFERENCES

1. Fogh, J., Wright, W.C. and Loveless, J.D. 1977. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. *J. Natl. Cancer Inst.* 58: 209-214.
2. Fogh, J., Fogh, J.M. and Orfeo, T. 1977. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. *J. Natl. Cancer Inst.* 59: 221-226.
3. Jumarie, C. and Malo, C. 1991. Caco-2 cells cultured in serum-free medium as a model for the study of enterocytic differentiation *in vitro*. *J. Cell. Physiol.* 149: 24-33.

SOURCE

Caco-2 Whole Cell Lysate is derived from the Caco-2 cell line.

Organism: *Homo sapiens* (human)
 Organ: Colon
 Disease: Colorectal adenocarcinoma
 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

Caco-2 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.

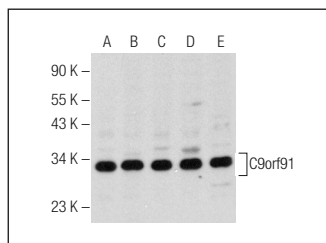
PREPARATION METHOD

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.

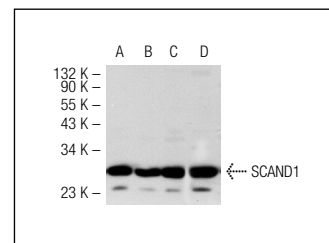
STORAGE

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

DATA



C9orf91 (V-12): sc-138875. Western blot analysis of C9orf91 expression in MOLT-4 (A), Caco-2 (B), Jurkat (C), MIA PaCa-2 (D) and BJAB (E) whole cell lysates.



SCAND1 (S-17): sc-69612. Western blot analysis of SCAND1 expression in Hep G2 (A), Caco-2 (B), HEL 92.1.7 (C) and U-937 (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 or our catalog for detailed protocols and support products.