SANTA CRUZ BIOTECHNOLOGY, INC.

COS Whole Cell Lysate: sc-364228

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. COS Whole Cell Lysate is derived from the COS 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.

COS is an African green monkey kidney fibroblast-like cell line suitable for transfection by vectors requiring expression of SV40 T antigen. This line contains T antigen, retains complete permissiveness for lytic growth of SV40, supports the replication of ts A209 virus at 40° C and supports the replication of pure populations of SV40 mutants with deletions in the early region. The line was derived from the CV-1 cell line by transformation with an origin-defective mutant of SV40 which codes for wild type T antigen. The cells contain a single integrated copy of the complete early region of the SV40 genome.

REFERENCES

1. Gluzman, Y. 1981. SV40-transformed simian cells support the replication of early SV40 mutants. Cell 23: 175-182.
2. Churchill, M.J., Moore, J.L., Rosenberg, M. and Brighty, D.W. 1996. The rev-responsive element negatively regulates human immunodeficiency virus type 1 env mRNA expression in primate cells. J. Virol. 70: 5786-5790.
3. Goodrum, F.D., Shenk, T. and Ornelles, D.A. 1996. Adenovirus early region 4 34-kilodalton protein directs the nuclear localization of the early region 1B 55-kilodalton protein in primate cells. J. Virol. 70: 6323-6335.
4. Mansky, L.M. 1996. The mutation rate of human immunodeficiency virus type 1 is influenced by the vpr gene. Virology 222: 391-400.

SOURCE

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

Organism:	*Cercopithecus aethiops* (monkey)
Tissue:	Kidney
Cell Type:	SV40 transformed
Morphology:	Fibroblast
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

COS 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.

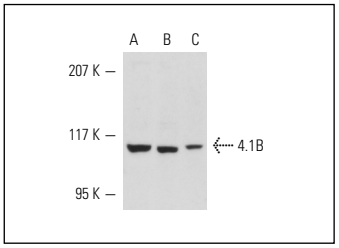
RESEARCH USE

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

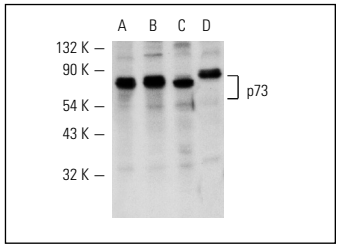
PREPARATION METHOD

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



4.1B (K-18): sc-25965. Western blot analysis of 4.1B expression in COS (**A**), KNRK (**B**) and HEL 92.1.7 (**C**) whole cell lysates.



p73 (E-4): sc-17823. Western blot analysis of p73 expression in SK-MEL-24 (**A**), K-562 (**B**), HL-60 (**C**) and COS (**D**) whole cell lysates.

STORAGE

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

PROTOCOLS

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