

Saos-2 Cell Lysate: sc-2235

BACKGROUND

Santa Cruz Biotechnology Inc. offers whole cell lysates for use in combination with research antibodies as Western Blotting controls. Saos-2 is a human (*Homo sapiens*) epithelial (adherent) bone osteosarcoma from an 11 year old female patient. Saos-2 cell lysate is derived from cultured Saos-2 cells, using a preparation method (RIPA Lysis Buffer System (sc-24948)), that ensures protein integrity and lot-to-lot reproducibility. Whole cell lysates are tested by Western Blotting in order to ensure each preparation contains a consistent concentration, and assortment of proteins.

REFERENCES

1. Czekanska, E.M., et al. 2012. In search of an osteoblast cell model for *in vitro* research. *Eur. Cell Mater.* 24: 1-17.
2. Müller, W.E., et al. 2015. Development of a morphogenetically active scaffold for three-dimensional growth of bone cells: biosilica-alginate hydrogel for Saos-2 cell cultivation. *J. Tissue Eng. Regen. Med.* 9: E39-E50.
3. David, M.S., et al. 2014. Saos-2 osteosarcoma cells bind fibroblasts via ICAM-1 and this is increased by tumour necrosis factor- α . *PLoS One* 9: e101202.
4. Wang, X., et al. 2014. Effect of bioglass on growth and biomineralization of Saos-2 cells in hydrogel after 3D cell bioprinting. *PLoS One* 9: e112497.

SOURCE

Saos-2 Cell Lysate is derived from the Saos-2 cell line.

Organism: *Homo sapiens* (human)
 Source: 11 years / Female
 Tissue of Origin: Bone / Osteosarcoma
 Cell Type: Epithelial / Hypotriploid / 56 chromosomes per cell
 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

Saos-2 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.

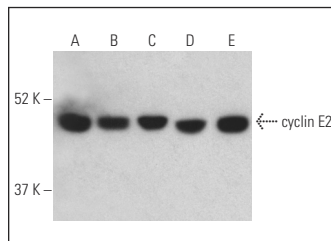
PREPARATION METHOD

Saos-2 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). BCA Protein Assay 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.

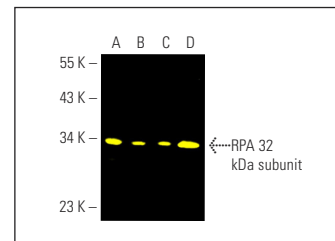
STORAGE

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

DATA



cyclin E2 (A-9) HRP: sc-28351 HRP. Direct western blot analysis of cyclin E2 expression in HeLa (A), Saos-2 (B), MDA-MB-231 (C) and 293T (D) whole cell lysates and BJA1 nuclear extract (E).



RPA 32 kDa subunit (9H8) Alexa Fluor[®] 488: sc-56770 AF488. Direct fluorescent western blot analysis of RPA 32 kDa subunit expression in Saos-2 (A), T-47D (B), MCF7 (C) and HL-60 (D) whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214.

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.