SANTA CRUZ BIOTECHNOLOGY, INC.

JAR Cell Lysate: sc-2276

BACKGROUND

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

JAR was derived from a male Caucasian fetus. This is probably a pseudo-triploid human cell line with the modal chromosome number of 68, occurring in 24% of cells, but cells with both 69 (22%) and 70 (18%) chromosome counts also occurred frequently. Cells with higher ploidies occurred at 7.0%.

REFERENCES

1. Pattillo, R. A., Ruckert, A., Hussa, R., Bernstein, R. and Delfs, E. 1971. The JAR cell line—continuous human multi-hormone production and controls. In Vitro 6: 398-399.

SOURCE

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

Organism:	*Homo sapiens* (human)
Organ:	Placenta
Disease:	Choriocarcinoma
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

JAR 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.

RESEARCH USE

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

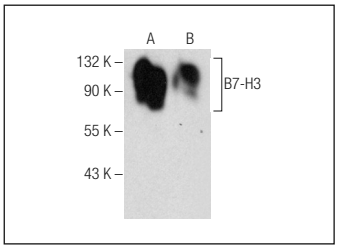
PROTOCOLS

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

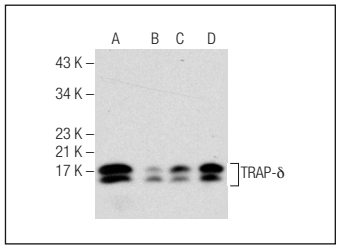
STORAGE

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

DATA



B7-H3 (F-11): sc-376769. Western blot analysis of B7-H3 expression in JAR (**A**) and JEG-3 (**B**) whole cell lysates.



TRAP-δ (C-6): sc-376706. Western blot analysis of TRAP-δ expression in Hep G2 (**A**), U-2 OS (**B**), A-431 (**C**) and JAR (**D**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Triggiani, M., Petraroli, A., Loffredo, S., Frattini, A., Granata, F., Morabito, P., Staiano, R.I., Secondo, A., Annunziato, L. and Marone, G. 2007. Differentiation of monocytes into macrophages induces the upregulation of histamine H1 receptor. J. Allergy Clin. Immunol. 119: 472-481.