SANTA CRUZ BIOTECHNOLOGY, INC.

HEL 92.1.7 Whole Cell Lysate: sc-2270

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. HEL 92.1.7 Whole Cell Lysate is derived from the HEL 92.1.7 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.

HEL 92.1.7 cells differentiate spontaneously into erythroblast-like cells. Macrophage-like differentiation can be induced with phorbol esters such as TPA (12-O-tetradecanoyl-phorbol-13-acetate) and PMA (phorbol myristic acid).

REFERENCES

1. Martin, P. and Papayannopoulou, T. 1982. HEL cells: a new human erythroleukemia cell line with spontaneous and induced globin expression. Science 216: 1233-1235.
2. Papayannopoulou, T., Nakamoto, B., Yokochi, T., Chait, A. and Kannagi, R. 1983. Human erythroleukemia cell line (HEL) undergoes a drastic macrophage-like shift with TPA. Blood 62: 832-845.
3. Clark, R.A., Erickson, H.P. and Springer, T.A. 1997. Tenascin supports lymphocyte rolling. J. Cell Biol. 137: 755-765.

SOURCE

HEL 92.1.7 Whole Cell Lysate is derived from the HEL 92.1.7 cell line.

Organism:	*Homo sapiens* (human)
Tissue:	Bone marrow
Disease:	Erythroleukemia
Cell Type:	Erythroblast
Growth Properties:	Suspension

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

HEL 92.1.7 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.

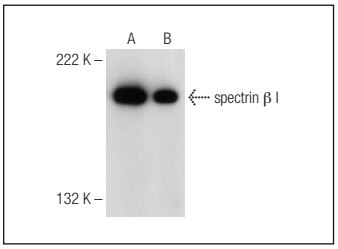
PREPARATION METHOD

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.

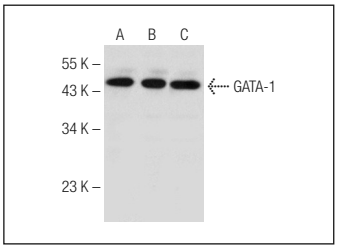
STORAGE

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

DATA



spectrin β I (B-1): sc-374309. Western blot analysis of spectrin β I expression in rat heart tissue extract (**A**) and HEL 92.1.7 whole cell lysate (**B**).



GATA-1 (N1): sc-266. Western blot analysis of GATA-1 expression in HEL 92.1.7 (**A**), MEG-01 (**B**) and TF-1 (**C**) 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.