SANTA CRUZ BIOTECHNOLOGY, INC.

Hep G2 + TGFβ Cell Lysate: sc-24702

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. Hep G2 whole cell lysate is derived from the Hep G2 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. Hep G2 cells express 3-hydroxy-3-methylglutaryl-CoA reductase and hepatic triglyceride lipase activities. The cells demonstrate decreased expression of apoA-I mRNA and increased expression of catalase mRNA in response to gramoxone (oxidative stress).

REFERENCES

1. Knowles, B.B., et al. 1980. Human hepatocellular carcinoma cell lines secrete the major plasma proteins and hepatitis B surface antigen. Science 209: 497-499.
2. Knowles, B.B., et al. 1983. Human hepatoma derived cell line, process for preparation thereof, and uses therefor. US Patent 4,393,133.
3. Schardt, C., et al. 1993. Characterization of Insulin-like growth factor II receptors in human small cell lung cancer cell lines. Exp. Cell Res. 204: 22-29.

SOURCE

Hep G2 + TGFβ Cell Lysate is derived from the Hep G2 cell line and induced with TGFβ.

Organism:	*Homo sapiens* (human)
Organ:	Liver
Disease:	Hepatocellular carcinoma
Growth Properties:	Adherent

PRODUCT

Western blotting (WB)-ready (denatured and reduced protein) endogenous whole cell lysates are ready to load for SDS-PAGE, and are provided in a single vial. Each vial contains 500 µg protein in 200 µl [2.5 µg/µl], containing 2X Electrophoresis Sample Buffer (sc-24945).

APPLICATIONS

Western blotting (WB)-ready endogenous mammalian protein whole cell lysates (for SDS-PAGE) are provided at a final concentration of 500 µg protein in 200 µl [2.5 µg/µl]. Thaw/heat at 95° C for 3-5 minutes. For endogenous controls, load up to 20 µl (50 µg) per lane (15 well (8.0 cm x 8.0 cm) gel).

STORAGE

Store at -20° C, avoid repeated freeze/thaw cycles. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PREPARATION METHOD

Mammalian cells are cultured *in vitro* under an appropriate buffered media condition to either an optimal suspension cell density, or optimal adherent cell sub-conlfluency. Cells are then harvested from cell culture media for protein extraction using the RIPA Lysis Buffer System (sc-24948). Bicinchoninic acid (BCA) protein assay calibration determines the protein concentration for each preparation. Western blotting (WB)-ready endogenous whole cell lysates contain 500 µg protein in 200 µl [2.5 µg/µl] at 1:1 with 2X Electrophoresis Sample Buffer (sc-24945).

PROTOCOLS

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