SANTA CRUZ BIOTECHNOLOGY, INC.

NIH/3T3 + PDGF Cell Lysate: sc-3803

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. NIH/3T3 Cell Lysate is derived from the NIH/3T3 cell line using a procedure that ensures protein integrity and lot-to-lot reproducibility and induced with PDGF. 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.

The NIH/3T3 cell line is highly sensitive to sarcoma virus focus formation and leukemia virus propagation and has proven to be very useful in DNA transfection studies. Tested and found negative for ectromelia virus (mousepox).

SOURCE

NIH/3T3 Cell Lysate is derived from the NIH/3T3 cell line.

Organism:	*Mus musculus* (mouse)
Strain:	NIH/Swiss
Tissue:	Embryo
Cell Type:	Fibroblast
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).

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).

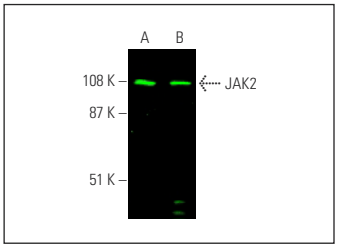
STORAGE

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

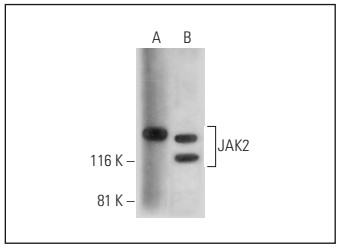
RESEARCH USE

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

DATA



JAK2 (C-10): sc-390539. Near-infrared western blot analysis of JAK2 expression in PDGF treated NIH/3T3 (**A**) and HEL 92.1.7 (**B**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.



JAK2 (C-10): sc-390539. Western blot analysis of JAK2 expression in PDGF treated NIH/3T3 (**A**) and K-562 (**B**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Qin, W., et al. 2009. PGC-1α expression decreases in the Alzheimer disease brain as a function of dementia. Arch. Neurol. 66: 352-361

PROTOCOLS

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