SANTA CRUZ BIOTECHNOLOGY, INC.

LADMAC Whole Cell Lysate: sc-364189

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. LADMAC Whole Cell Lysate is derived from the LADMAC 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.

LADMAC is a transformed cell line derived by transfecting mouse bone marrow cells highly enriched for macrophage progenitors with cloned human cellular Myc-homologous sequences covalently attached to pBR325 (pR Myc). The cell line has monocyte-like morphology; contains nonspecific esterase; is phagocytic for latex beads; secretes lysozyme, and bears the Mac-1 antigen. A minority of cells are Fc receptor positive and an appreciable number of cells are complement receptor 1 positive. The cells are tumorigenic in ν^+, ν^+ mice but not in syngenic mice. The cells are not phagocytic for antibody or complement-coated particles and do not constitutively secrete Interleukin-1. LADMAC cells secrete the growth factor colony stimulating factor 1 (CSF-1).

REFERENCES

1. Sklar, M.D., Tereba, A., Chen, B.D. and Walker, W.S. 1985. Transformation of mouse bone marrow cells by transfection with a human oncogene related to c-myc is associated with the endogenous production of macrophage colony stimulating factor 1. J. Cell. Physiol. 125: 403-412.
2. Olivas, E., Chen, B.B. and Walker, W.S. 1995. Use of the Pannell-Milstein roller bottle apparatus to produce high concentrations of the CSF-1, the mouse macrophage growth factor. J. Immunol. Methods 182: 73-79.

SOURCE

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

Organism:	*Mus musculus* (mouse)
Strain:	C_3H
Tissue:	Bone marrow
Cell Type:	Lymphoblast
Growth Properties:	Suspension, with some loosely adherent cells

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

LADMAC 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.

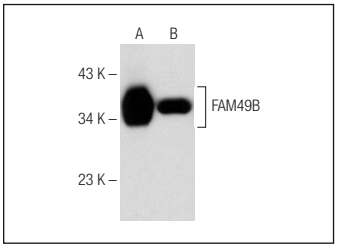
STORAGE

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

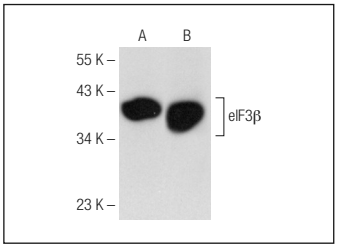
PREPARATION METHOD

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.

DATA



FAM49B (N-13): sc-87723. Western blot analysis of FAM49B expression in LADMAC (**A**) and JAR (**B**) whole cell lysates.



eIF3β (A-8): sc-374155. Western blot analysis of eIF3β expression in HeLa (**A**) and LADMAC (**B**) 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.