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U-937 Cell Lysate: sc-2239

BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. U-937 Whole Cell Lysate is derived from the U-937 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.

The U-937 cell line was derived by Sundstrom and Nilsson in 1974 from malignant cells obtained from the pleural effusion of a patient with histiocytic lymphoma. Studies since 1979 have shown that U-937 cells can be induced to terminal monocytic differentiation by supernatants from human mixed lymphocyte cultures, phorbol esters, vitamin D₃, γ interferon, tumor necrosis factor (TNF) and retinoic acid. U-937 cells are negative for immunoglobulin production and Epstein-Barr virus expression, express the Fas antigen, and are sensitive to TNF and anti-Fas antibodies.

REFERENCES

1. Ralph, P., et al. 1976. Lysozyme synthesis by established human and murine histiocytic lymphoma cell lines. *J. Exp. Med.* 143: 1528-1533.
2. Rosenfeld, C. and Serrou, B., eds. 1980. *International Symposium on New Trends in Human Immunology and Cancer Immunotherapy*. Paris: Doin Editeurs.
3. Andersson, L.C., Gahmberg, C.G. and Ekblom, P., eds. 1985. *Gene Expression During Normal and Malignant Differentiation*. London: Academic Press.

SOURCE

U-937 Whole Cell Lysate is derived from the U-937 cell line.

Organism: *Homo sapiens* (human)
Morphology: Monocyte
Disease: Histiocytic lymphoma
Growth Properties: Suspension

PRODUCT

Each vial contains 500 μ g protein in 200 μ l of an SDS-PAGE Western Blotting buffer, which consists of 100 μ l RIPA Lysis Buffer and 100 μ l Electrophoresis Buffer, 2X.

APPLICATIONS

U-937 Whole Cell Lysate is provided as a Western Blotting positive control. Recommended use is 50 μ g (20 μ l) per lane. Sample vial should be boiled once prior to use.

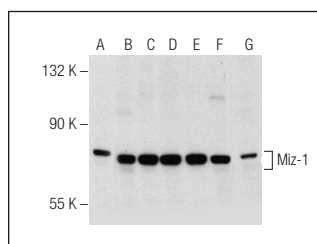
STORAGE

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

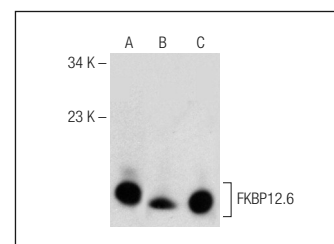
PREPARATION METHOD

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 μ g of total cellular protein in 100 μ l before adding an equal volume of Electrophoresis Sample Buffer, 2X (sc-24945). Final concentration of product is 500 μ g total protein in a final volume of 200 μ l.

DATA



Miz-1 (B-10): sc-136985. Western blot analysis of Miz-1 expression in HeLa (A), HT-1080 (B), Caco-2 (C), HL-60 (D), U-937 (E), NIH/3T3 (F) and HCT 116 (G) whole cell lysates.



FKBP12.6 (H-8): sc-376135. Western blot analysis of FKBP12.6 expression in U-937 whole cell lysate (A) and mouse heart (B) and human heart (C) tissue extracts.

SELECT PRODUCT CITATIONS

1. Brender, C., et al. 2001. STAT3-mediated constitutive expression of SOCS-3 in cutaneous T-cell lymphoma. *Blood* 97: 1056-1062.
2. Bradesi, S., et al. 2006. The role of neurokinin 1 receptors in the maintenance of visceral hyperalgesia induced by repeated stress in rats. *Gastroenterology* 130: 1729-1742.
3. Abbott, B.D., et al. 2010. Peroxisome proliferator-activated receptors α , β , and γ mRNA and protein expression in human fetal tissues. *PPAR Res.* 2010. pii: 690907.

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.