Native Human RT-4 Whole Cell Lysate

Cat. No. RT4-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RT4 Whole Cell Lysate is derived from the RT4 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.
Species	Human
Source	Urinary bladder
Description	RT4 was derived from 63 year old male caucasian and is used primarily as a tumorigenic transfection host. The cell line is aneuploid human male, with chromosome counts in the near-diploid range.
Applications	RT4 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.
Notes	For research use only, not for use in diagnostic procedures.
Disease	Transitional cell papilloma
Cell Type	Epithelial
Growth Properties	Adherent

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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. The BCA Protein Assay Kit 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, 2×. Final concentration of product is 500 µg total protein in a final volume of 200 µL.
Storage	Store at -20 centigrade; stable for one year from the date of shipment. Non-hazardous. No MSDS required. Minimize repeated freezing and thawing.
Storage Buffer	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, 2×
Reference	1. O"Toole, C., Perlmann, P., Unsgaard, B., Moberger, G. and Edsmyr, F. 1972. Cellular immunity to human urinary bladder carcinoma. I. Correlation to clinical stage and radiotherapy. Int. J. Cancer 10: 77-91. 2. Fogh, J., Wright, W.C. and Loveless, J.D. 1977. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214. 3. O"Toole, C. Human bladder cancer lines: HLA Class I and Class II antigen expression and susceptibility to cytostatic and cytotoxic effects in vitro. In: Webber, M.M. and Sekely, L.I., eds. In vitro models for cancer research. Vol. IV. Boca Raton, FL: CRC Press, 103-125.

GENE INFORMATION

Official Symbol	RT-4
Synonyms	RT-4 Whole Cell Lysate

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