SANTA CRUZ BIOTECHNOLOGY, INC.

TT Whole Cell Lysate: sc-364195

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. TT Whole Cell Lysate is derived from the TT 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 TT cell line was established by S.S. Leong, et al. from a specimen obtained by needle biopsy from a 77 year old female with thyroid medullary carcinoma. TT cells continuously produce high levels of calcitonin and CEA. Chromosomal analysis of the TT cell line and tumors induced in nude mice reveal an aneuploid human karyotype with several marker chromosomes.

REFERENCES

1. Monaco, M., Monaco, F. and Robbins, J. 1981. Advances in thyroid neoplasia. Rome: Field Educational Italia.
2. Behr, T.M., Wulst, E., Radetzky, S., Blumenthal, R.D., Dunn, R.M., Gratz, S., Rave-Fränk, M., Schmidberger, H., Raue, F. and Becker, W. 1997. Improved treatment of medullary thyroid cancer in a nude mouse model by combined radioimmunochemotherapy: doxorubicin potentiates the therapeutic efficacy of radiolabeled antibodies in a radioresistant tumor type. Cancer Res. 57: 5309-5319.

SOURCE

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

Organism:	*Homo sapiens* (human)
Tissue:	Thyroid
Disease:	Carcinoma
Cell Type:	Epithelial
Growth Properties:	Adherent

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

TT 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.

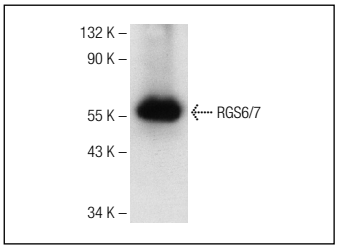
PREPARATION METHOD

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.

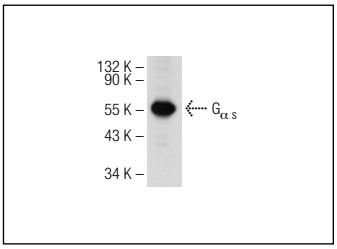
STORAGE

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

DATA



RGS6/7 (F-10): sc-271643. Western blot analysis of RGS6/7 expression in TT whole cell lysate.



$G_{\alpha s}$ (K-20): sc-823. Western blot analysis of $G_{\alpha s}$ expression in TT whole cell lysate.

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.