



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# ZR-75-1 Cell Lysate: sc-2241

## BACKGROUND

Santa Cruz Biotechnology offers a variety of whole cell lysates for use in combination with our antibodies as Western Blotting controls. ZR-75-1 Whole Cell Lysate is derived from the ZR-75-1 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.

ZR-75-1 cell line was established from a 63 year old female Caucasian. The cells produce high levels of MUC-1 Mucin mRNA and low levels of MUC-2 mRNA but do not express the MUC-3 gene. The estrogen receptor is also expressed. This human cell line has a hypertriploid chromosome number.

## REFERENCES

- Engel, L.W., Young, N.A., Tralka, T.S., Lippman, M.E., O'Brien, S.J. and Joyce, M.J. 1978. Establishment and characterization of three new continuous cell lines derived from human breast carcinomas. *Cancer Res.* 38: 3352-3364.
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- Littlewood-Evans, A.J., Bilbe, G., Bowler, W.B., Farley, D., Wlodarski, B., Kokubo, T., Inaoka, T., Sloane, J., Evans, D.B. and Gallagher, J.A. 1997. The osteoclast-associated protease cathepsin K is expressed in human breast carcinoma. *Cancer Res.* 57: 5386-5390.
- Wang, E., Ma, W.J., Aghajanian, C. and Spriggs, D.R. 1997. Posttranscriptional regulation of protein expression in human epithelial carcinoma cells by adenine-uridine-rich elements in the 3'-untranslated region of tumor necrosis factor- $\alpha$  messenger RNA. *Cancer Res.* 57: 5426-5433.
- Couillard, S., Gutman, M., Labrie, C., Bélanger, A., Candas, B. and Labrie, F. 1998. Comparison of the effects of the antiestrogens EM-800 and tamoxifen on the growth of human breast ZR-75-1 cancer xenografts in nude mice. *Cancer Res.* 58: 60-64.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## SOURCE

ZR-75-1 Whole Cell Lysate is derived from the ZR-75-1 cell line.

Organism:	<i>Homo sapiens</i> (human)
Organ:	Mammary gland; breast
Tissue:	Duct
Disease:	Ductal carcinoma
Derived from metastatic site:	Ascites
Growth Properties:	Adherent epithelial

## PRODUCT

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

## APPLICATIONS

ZR-75-1 Whole Cell Lysate is provided as a Western Blotting positive control. Recommended use is 50  $\mu$ g (20  $\mu$ l) 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  $\mu$ g of total cellular protein in 100  $\mu$ l before adding an equal volume of Electrophoresis Sample Buffer, 2X (sc-24945). Final concentration of product is 500  $\mu$ g total protein in a final volume of 200  $\mu$ l.

## SELECT PRODUCT CITATIONS

- Hou, M., Stukenborg, J.B., Nurmio, M., Andersson, M., Toppari, J., Söder, O. and Jahnukainen, K. 2011. Ontogenesis of Ap-2 $\gamma$  expression in rat testes. *Sex. Dev.* 5: 188-196.

## RESEARCH USE

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