ZR-75-1 GRB7 [ZR-GRB7 (3)] cell line

Catalogue number: 154627
Sub-type: Continuous
Images:

Contributor

Inventor: Lambert Dorssers
Institute: Erasmus University Medical Center (Erasmus MC)
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: ZR-75-1 GRB7 [ZR-GRB7 (3)] cell line

Alternate name: Growth Factor Receptor Bound Protein 7

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Class:
Conjugate:
Description: Breast cancer is widely and effectively treated with endocrine treatment. However, in many cases the tumours will eventually progress into an estrogen-independent and therapy-resistant phenotype.Seven genes including AKT1, AKT2, BCAR1, BCAR2, BCAR3, EGFR2 and GRB7 have been shown to directly underlie estrogen independence in human breast cancer cells. This cell line is part of a panel of 16 cell lines (Cat No 154621-154635, 154642) which have been transfected with these genes, plus the parental (Cat No 154547).This cell line is a powerful tool for studying the molecular and cellular mechanisms of breast tumour progression, therapy resistance and to test the effectiveness of novel drugs to combat different modes of anti-estrogen insensitivity
Purpose:
Parental cell: ZR-75-1
Organism: Human
Tissue: Breast
Model: Cancer Model
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties:

Production details: Expression constructs with GRB7 were transfected into ZR-75-1 cells using FuGENE 6 and selected with G418. After selection for G418 resistance colonies were expanded
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: GRB7

Target alternate names:

Target background:

Molecular weight:

Ic50:

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Applications

Application:
Application notes: The cell line is resistant to Geneticin, which may be included in the culture medium to ensure that the expression vector is retained by the cells.

Handling

Format: Frozen
Concentration:
Passage number:
Growth medium: RPMI 1640 medium supplemented with 10% heat-inactivated bovine serum (RBCS) and 1 nM 17?-estradiol
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions: Liquid Nitrogen
Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Godinho et al. 2011. J Cell Physiol. 226(7):1741-9. PMID: 21506106. ; Meijer et al. 2006. Mol Cancer Res. 4(6):379-86. PMID: 16778085.

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