

ZR-75-1 estrogen independent breast cancer cell line panel (2)

Catalogue number: 154645

Sub-type: Continuous

Images:

Contributor

Inventor:

Institute: Erasmus University Medical Center (Erasmus MC)

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: ZR-75-1 estrogen independent breast cancer cell line panel (2)

Alternate name:

Class:

Conjugate:

Description: Endocrine therapy of breast cancer has been applied widely and proven to be effective. However, in many instances endocrine treatments ultimately fail due to the development of an estrogen-independent therapy resistant phenotype. To elucidate the molecular mechanism underlying this endocrine therapy failure, the laboratory of Lambert Dorssers applied different genetic screens to identify the main genes conferring estrogen independence. Out of 15 candidate BCAR genes, several including BCAR1...

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: Full length cDNA of the relevant gene was introduced in the estrogen-dependent ZR-75-1 cell line by transfection with lipofectamine

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: BCAR1, BCAR3, AKT1, AKT2, BCAR4, GRB7, EGFR, HRAS, PDGFRA, PDGFRB, RAF1

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: These cell lines are resistant to Geneticin, which may be included in the culture medium to ensure that the expression vector is retained by the cells. As a consequence of the presence of a BCAR genes, these cells can also proliferate in the absence of estrogen or even in the presence of anti-estrogens.

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: RPMI 1640 medium supplemented with 10% heat-inactivated bovine serum (RBCS) and 1 nM 17 β -estradiol

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: van Agthoven et al. 2009. Breast Cancer Res Treat. 114(1):23-30. PMID: 18351453. ; Dorssers et al. 1993. Mol Endocrinol. 7(7):870-8. PMID: 8413311.

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