ZR-75-1 BCAR3 [B3-10] cell line

Catalogue number: 154622
Sub-type: Continuous
Images:

Contributor

Inventor: Lambert Dorssers
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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: ZR-75-1 BCAR3 [B3-10] cell line

Alternate name: Breast Cancer Anti-Estrogen Resistance 3; SH2 Domain-Containing Protein 3B; NSP2

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: Full length BCAR3 cDNA 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: BCAR3

Target alternate names:

Target background:

Molecular weight:

Ic50:

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. 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?-estradiol
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions: Liquid Nitrogen
Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Brinkman et al. 2000. J Natl Cancer Inst. 92(2):112-20. PMID: 10639512.