

ZR-75-1 RAF1 [ZR-RAF1(T2)] cell line

Catalogue number: 154635

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 RAF1 [ZR-RAF1(T2)] cell line

Alternate name: Raf-1 Proto-Oncogene, Serine/Threonine Kinase; CRaf

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: Retroviral particles containing RAF1 cDNA were produced by transient transfection of Phoenix-Ampho packaging cells using FuGENE6. ZR-75-1 cells were incubated with viral particles in the presence of 4ug/ml polybrene and 1nmol/L estradiol. Three days after transfection cells were cultured in medium supplemented with G418 and resistant colonies were expanded.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: RAF1

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.

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: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: van Agthoven et al. 2010. Endocr Relat Cancer. 17(1):215-30. PMID: 19966015.

CancerTools.org