# ZR-75-1 AKT2 [ZR-AKT 2 pool B] cell line

Catalogue number: 154624 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 AKT2 [ZR-AKT 2 pool B] cell line

Alternate name: AKT Serine/Threonine Kinase 2; PKB Beta; Rac Protein Kinase Beta

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

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Purpose:

Parental cell: ZR-75-1 Organism: Human Tissue: Breast Model: Cancer Model Gender: Isotype: Reactivity: Selectivity: Host: Immunogen: Immunogen: Immunogen UNIPROT ID: Sequence: Growth properties:

**Production details:** Expression constructs with AKT2 were transfected into ZR-75-1 cells using FuGENE 6 and selected with G418. After selection for G418 resistance colonies were pooled and expanded

Formulation: **Recommended controls: Bacterial resistance:** Selectable markers: Additional notes:

## **Target details**

Target: AKT2

Target alternate names:

Target background:

Molecular weight:

Ic50:

### **Applications**

#### **Application:**

Cancer Tools.org 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: van Agthoven et al. 2009. Breast Cancer Res Treat. 114(1):23-30. PMID: 18351453.

Cancer Tools.org