

# ZR-75-1 BCAR1 [4A12] cell line

**Catalogue number:** 154621

**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 BCAR1 [4A12] cell line

**Alternate name:** Breast Cancer Anti-Estrogen Resistance 1; CASS1; P13Cas; CRKAS

**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 BCAR1/p130Cas cDNA was introduced in the estrogen-dependent ZR-75-1 cell line by transfection

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:** Murine BCAR1 cDNA is homologous to the human p130Cas. 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 gene, these cells can also proliferate in the absence of estrogen or even in the presence of anti-estrogens.

## Target details

**Target:** BCAR1

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:** Murine BCAR1 cDNA is homologous to the human p130Cas

## Handling

**Format:** Frozen

**Concentration:**

**Passage number:**

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

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** Liquid Nitrogen

**Shipping conditions:** Dry ice

## Related tools

**Related tools:**

## References

**References:** Dorssers et al. 1997. Int J Cancer. 72(4):700-5. PMID: 9259413.

CancerTools.org