

1-7 CE1 Cell Line

Catalogue number: 151503

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: 1-7 CE1 Cell Line

Alternate name:

Class:

Conjugate:

Description: 1-7 CE1 is a clonal derivative of the human mammary luminal epithelial cell line MTSV1-7. MTSV1-7 is transfected with erb-b2 receptor tyrosine kinase 2 (ERBB2) expression vector, enabling the over-expression of ERBB2 proto-oncogene. At confluence, the morphology is cuboidal. The ERBB2 (or Her2) oncogene is amplified and/or overexpressed in a significant proportion of breast cancers. The over-expression of the ERBB2 receptor inhibits morphogenesis in vitro, and induces reduced expression of surface adhesion molecules such as E-cadherin, suggesting a role for ERBB2 over-expression in tumour progression and metastasis. The 1-7 CE1 cell line is an ideal in vitro tool for investigation of the role of the ERBB2 proto-oncogene in breast cancer morphogenesis and adhesion.

Purpose:

Parental cell: MSTV1-7 HER2

Organism: Human

Tissue: Breast

Model: Transgenic

Gender: Female

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: MTSV1-7 transfected with SV40 plasmid DNA; MTSV1-7 ce1 line transfected with plasmid constructs for pSV2-erbB2 and pSV2neo.

Formulation:

Recommended controls: MSTV1-7 HER2 parental line

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: ERBB2

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: Investigation of ERBB2 proto-oncogene in breast cancer

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: DMEM + 2mM Glutamine + 10% Foetal Bovine Serum (FBS) + Insulin (bovine) at 10ug/ml + Hydrocortisone at 5ug/ml.

Temperature: 37° C

Atmosphere: 5% CO2

Volume:

Storage medium:

Storage buffer:

Storage conditions: Vapor phase of liquid nitrogen. Storage at -70° C will result in loss of viability.

Shipping conditions: Dry ice

Related tools

Related tools: 1-7HB2 Cell Line

References

References: Wilding et al. 2002. Cancer Res. 62(16):4562-5. PMID: 12183406. ; Cyclin D1 is not an essential target of beta-catenin signaling during intestinal tumorigenesis, but it may act as a modifier of disease severity in multiple intestinal neoplasia (Min) mice. ; Fantl et al. 1995. Genes Dev. 9(19):2364-72. PMID: 7557388. ; Mice lacking cyclin D1 are small and show defects in eye and mammary gland development.

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