MCF10A-ERRB2m-2 cell line

Catalogue number: 161191
Sub-type: Continuous
Images:

Contributor

Inventor: Medical-Industrial Translational Research Center
Institute: Fukushima Medical University
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MCF10A-ERRB2m-2 cell line

Alternate name: 06M15002

Class:
Conjugate:
Description: Non-tumorigenic immortalized breast epithelial cell stably overexpressing mutant cancer-related gene, ERBB2 (erb-B2 Receptor Tyrosine Kinase 2). ERBB2 is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors.
Purpose:
Parental cell: MCF10A, a non-tumorigenic cell line from human mammarygland epithelium
Organism: Human
Tissue: Mammarygland epithelium
Model: Mutant
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties:

Adherent
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Erb-b2 receptor tyrosine kinase 2 [ERBB2]

Target alternate names:

Target background: Gene ID: 2064; References: DNA (mRNA): NM_004448.3; Protein: NP_004439.2

Molecular weight:

Ic50:

Applications

Application: Functional analysis of mutated genes, Drug screening
Application notes:

Handling

Format: Frozen
Concentration:
Passage number:
Growth medium: DMEM/Ham's F-12 supplemented with 5% heat-inactivated horse serum, 10 Â?g/ml insulin (human, recombinant), 5 Â?M forskolin, 0.5 Â?g/ml hydrocortisone, 20 ng/ml EGF (human, recombinant), 100 U/ml penicillin, and 100 Â?g/ml streptomycin
Temperature: 37° C
Atmosphere: Humidified incubator with 5%Â CO2
Volume:
Storage medium: CELLBANKER 2 (Zenogen pharma)
Storage buffer:
Storage conditions: Liquid Nitrogen
Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Irie et al. Mol Cancer Ther. 2019 Apr, 18(4):733-742. PMID: 30787176