

MCF10A-ERRB2m-4 cell line

Catalogue number: 161193

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-4 cell line

Alternate name: 06M15007

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 μ g/ml insulin (human, recombinant), 5 μ M forskolin, 0.5 μ g/ml hydrocortisone, 20 ng/ml EGF (human, recombinant), 100 U/ml penicillin, and 100 μ g/ml streptomycin

Temperature: 37° C

Atmosphere: Humidified incubator with 5% CO_2

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

CancerTools.org