

Product Information

MemDX™ Human EGFR (E709K/G719A) BaF3 Cell Line

Cat. No.: **S01YF-1222-KX654**

This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein

EGFR (E709K/G719A)

Target Protein Species

Human

Accession Number

NM_005228.3

Protein Tag

Tag-free

Host Cell Type

BaF3

Target Classification

Kinases/Enzyme

Target Family

Kinases/Enzyme

Target Research Area

Cancer Research; Inflammation Research

Related Diseases

Inflammatory Skin And Bowel Disease; Lung Cancer

Product Properties

Morphology

Suspension

Assay Types

Drug screening and biological assays

Resistance

Puromycin

Stability

10 passages

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Quantity

5x10⁶ cells

Form

Frozen cells

Freeze Medium

70% RPMI 1640 + 20% FBS + 10% DMSO

Culture Medium

RPMI 1640 + 10% FBS

Selective Antibiotic(s)

Regular antibiotics active against mycoplasmas, bacteria and fungi.

Handling Notes

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.

Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.

Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Incubation

37°C with 5% CO₂

Applications

Drug screening and biological assays

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO₂ to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

Introduction

The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2).

Alternative Names

EGFR; ERBB; ERBP; HER1; mENA; ERBB1; PIG61; NISBD2; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; epidermal growth factor receptor tyrosine kinase domain; erb-b2 receptor tyrosine kinase 1; proto-oncogene c-ErbB-1; receptor tyrosine-protein kinase erbB-1; Epidermal growth factor receptor

Gene ID

[1956](#)

UniProt ID

[P00533](#)