Human Recombinant EGFR Stable Cell Line

Cat. No.: FCC-132

■ Introductioin

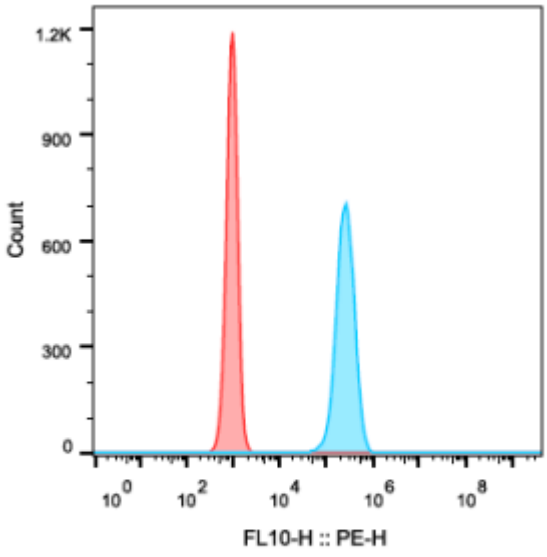
Cell Line Name:	CHO-K1/EGFR
Gene Synonyms:	ERBB; ERRP; HER1; mENA; ERBB1; PIG61; NISBD2
Expressed Gene:	EGFR
Host Cell:	CHO-K1, (ATCC® CCL-61™)
Quantity:	Two vials of frozen cells (>1×10^6 cells/vial)
Application:	Binding assay or use as immunogen
Cryopreservation Medium:	70% Complete growth medium，20% FBS，10% (V/V) DMSO
Complete Growth Medium:	F12K, 10% FBS
Drug Screening:	12 μg/ml Puromycin
Mycoplasma Contamination:	Not detected
Storage:	Liquid nitrogen immediately upon receipt

■ Background

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).

■ Representative Data

Protein Expression Validation



	Sample Name	Subset Name	Count
	EGFR1.fcs	Lymphocytes	9232
	BLANK-.fcs	Lymphocytes	9571

Figure 1: FACS analysis of EGFR expression in CHO-K1/EGFR cells

■ Cell Culture Procedure

1. Complete Growth Medium

The base medium for this cell line is ATCC-formulated F-12K Medium, Catalog No. 30-2004. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.

2. Subculturing

1）Remove and discard culture medium.

2）Briefly rinse the cell layer with 0.25% (w/v) Trypsin- 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor.

3）Add 2.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 5 minutes). **Note:** To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.

4）Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting.

5）Add appropriate aliquots of the cell suspension to new culture vessels.

6）Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 to 1:5 is recommended.

Medium Renewal: Once or twice between subculture.

3. Cryopreservation

Freeze medium: 70% Complete growth medium，20% FBS，10 % (V/V) DMSO

Storage temperature: liquid nitrogen vapor phase

4. Culture Conditions

Temperature: 37°C,

CO_2 : 5%

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