Human Recombinant CD40LG Stable Cell Line

Cat. No.: FCC-147

Introductioin

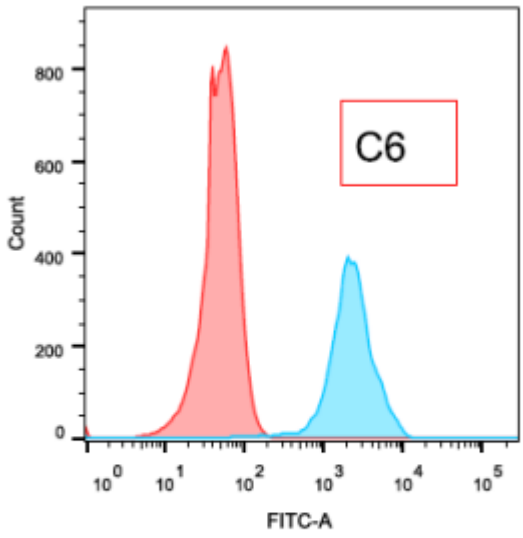
Cell Line Name:	CHO-K1/CD40LG
Gene Synonyms:	IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L
Expressed Gene:	CD40LG
Host Cell:	CHO-K1
Quantity:	Two vials of frozen cells (>1×10^6 cells/vial)
Application:	Binding assay or use as immunogen
Cryopreservation Medium:	70% Complete growth 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 expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome.

Representative Data

Protein Expression Validation



	Sample Name	Subset Name	Count
	Specimen_001_CHO-K1 CD40LG_006.fcs	Lymphocytes	11106
	Specimen_001_CHO-K1_001.fcs	Lymphocytes	20420

Figure 1: FACS analysis of CD40LG expression in CHO-K1/CD40LG 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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