

Human Recombinant CD80 Stable Cell Line

Cat. No.: FCC-129

■ Introduction

Cell Line Name:	CHO-K1/CD80
Gene Synonyms:	B7; BB1; B7-1; B7.1; LAB7; CD28LG; CD28LG1
Expressed Gene:	CD80
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 membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy.

■ **Representative Data**

Protein Expression Validation

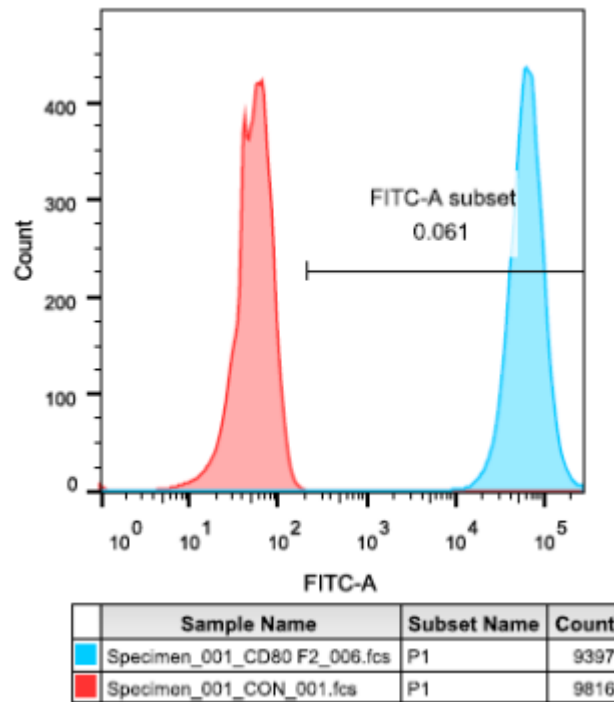


Figure 1: FACS analysis of CD80 expression in CHO-K1/CD80 cells

■ **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,

CO₂ : 5%

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