

Human Recombinant CD276 Stable Cell Line

Cat. No.: FCC-126

■ Introduction

Cell Line Name:	CHO-K1/CD276
Gene Synonyms:	B7H3; B7-H3; B7RP-2; 4Ig-B7-H3
Expressed Gene:	CD276
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 belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

■ **Representative Data**

Protein Expression Validation

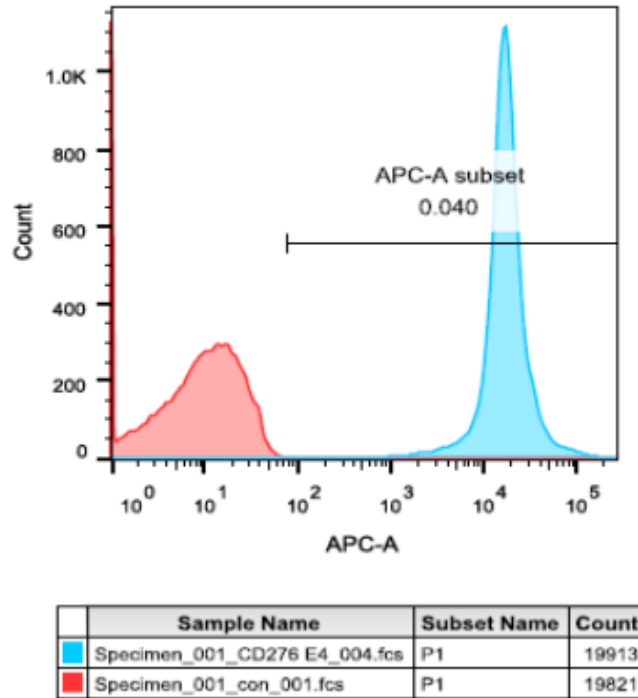


Figure 1: FACS analysis of CD276 expression in CHO-K1/CD276 cells

■ **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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