Human Recombinant CD28 Stable Cell Line
Cat. No. M00611 **Version 04282015**

I. INTRODUCTION

Catalog Number: M00611
Cell Line Name: GS-J1/CD28
Gene Synonyms: Tp44
Express Gene: Codon Optimized from NM_006139.3
Host Cell: GS-J1
Quantity: Two vials of frozen cells (1×10^6 per vial)
Stability: 20 passages
Application: in vitro functional assay
Freeze Medium: 95% complete growth medium, 5% DMSO
Culture Medium: RPMI 1640, 10% FBS
Mycoplasma160: Negative
Functional Performance: For Ipilimumab, Signal / Background (S/B) > 3
Storage: Liquid nitrogen immediately upon receipt

II. BACKGROUND

GS-J1 cells are an immortalized line of human T lymphocyte cells that are used to study acute T cell leukemia, T cell signaling, and the expression of various chemokine receptors susceptible to viral entry, particularly HIV. GS-J1 cells are useful in science because of their ability to produce interleukin 2.

III. REPRESENTATIVE DATA

- Validation by *in vitro* Functional Assay

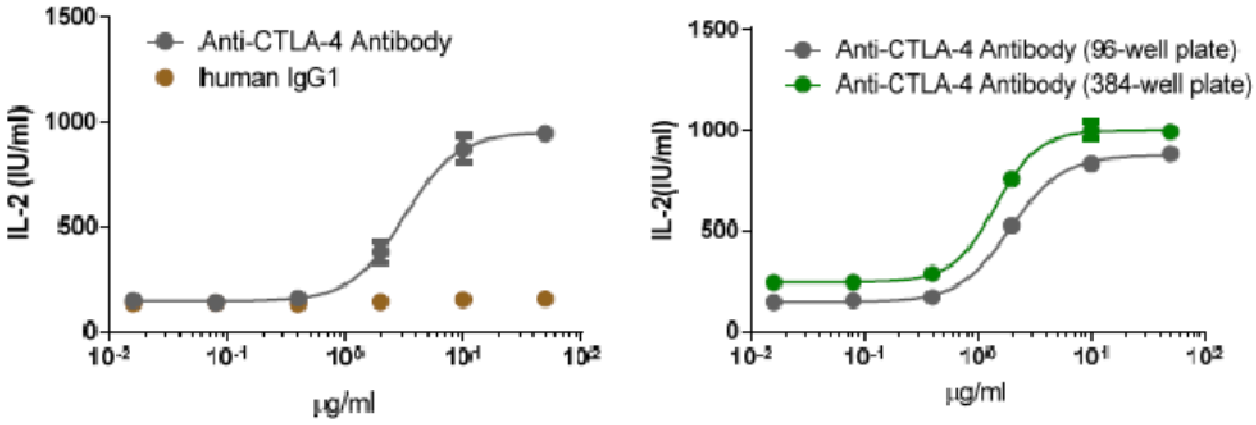

Figure 1. Functional evaluation of GS-J1 by cell-based anti-CTLA4 activity assay. The EC_{50} curves studies with Ipilimumab were shown in 96 and 384-well plate formats, respectively. Human IgG1 was used as a negative control. GS-J1 cells were co-cultured with GS-C1/CD80 together with CTLA4 fusion protein and Ipilimumab.

IV. THAWING AND SUBCULTURING

Thawing Protocol

1. Remove the vial from liquid nitrogen tank and thaw cells quickly in a 37°C water-bath.
2. Just before the cells are completely thawed, decontaminate the outside of the vial with 70% ethanol and transfer the cells to a 15 ml centrifuge tube containing 9 ml of complete growth medium.
3. Pellet cells by centrifugation at 200 x g for 5 min, and remove the medium.
4. Resuspend the cells in complete growth medium.
5. Transfer the cell suspension to a 10 cm dish with 10 ml of complete growth medium.
6. Grow the cells in incubator with 37°C, 5 % CO_2.
7. Add antibiotic in the following day.

Sub-culturing Protocol

1. Centrifuge the cells at 200 x g for 5min, and remove the medium.
2. Resuspend the cells in culture medium and add the cells suspension to new culture dish.
3. Grow the cells in incubator with 37°C, 5 % CO_2.

Subcultivation density: 2.5×10^5 cells/ml~4×10^5 cells/ml
Medium Renewal: Every 2 to 3 days

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