

Human Recombinant PD1 Stable Cell Line Cat. No.M00630

Version 03072017

I. INTRODUCTION

Catalog Number: M00630
Cell Line Name: Daudi/ PD1

Gene Synonyms: PDCD1 ; CD279; PD-1; SLEB2; hPD-1; hPD-I; hSLE1 Expressed Gene: Codon Optimized from NM_005018.2; no expressed tags

Host Cell: Daudi

Quantity: Two vials of frozen cells (1×10⁶ per vial)

Stability: 15 passages

Application: Binding assay or use as immunogen

Freeze Medium: 95% complete growth medium, 5% DMSO Complete Growth Medium: RPMI Medium 1640, 10% FBS

Culture Medium: RPMI Medium 1640, 10% FBS, 0.5 µg/ml Puromycin

Mycoplasma Status : Negative

Storage: Liquid nitrogen immediately upon receipt

II. BACKGROUND

Programmed cell death protein 1, also known as PD-1 and CD279 (cluster of differentiation 279), is a protein that in humans is encoded by the PDCD1 gene. PD-1, functioning as an immune checkpoint, plays an important role in down regulating the immune system by preventing the activation of T-cells, which in turn reduces autoimmunity and promotes self-tolerance. The inhibitory effect of PD-1 is accomplished through a dual mechanism of promoting apoptosis (programmed cell death) in antigen specific T-cells in lymph nodes while simultaneously reducing apoptosis in regulatory T cells (suppressor T cells).

^{§:} GenScript employs a PCR-based method to test the mycoplasma. The test covers 11 of the most common strains of mycoplasma, (covering approximately 95% of M. fermentans, M. hyorhinis, M. arginini, M. orale, M. salivarium, M. hominis, M. pulmonis, M. arthritidis, M. neurolyticum, M. hyopneumoniae and M. capricolum) and one species Ureaplasma (U. urealyticum), with sufficient sensitivity and specificity.



REPRESENTATIVE DATA

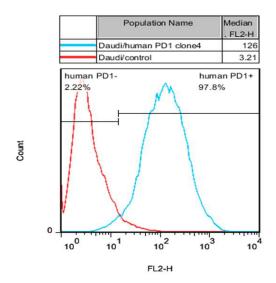


Figure 1. FACS analysis of human PD1 expression in Daudi cells.

III. 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 %CO₂.
- 7. Add antibiotic the following day.

Sub-culturing Protocol

- 1. Remove the culture medium from cells.
- 2. Wash cells with PBS (pH=7.4) to remove all traces of serum that contains trypsin inhibitor.
- 3. Add 2.0 ml of 0.05% (w/v) Trypsin- EDTA (GIBCO, Cat No. 25300) solution into 10 cm dish and observe the cells under an inverted microscope until cell layer is dispersed (usually within 3 to 5 minutes).
 - Note: To avoid cells clumping, do not agitate the cells by hitting or shaking the dish while waiting for the cells detach. If cells are difficult to detach, please place the dish in 37° C incubator for \sim 2 min.
- 4. Add 6.0 to 8.0 ml of complete growth medium into dish and aspirate cells by gently pipetting.
- 5. Centrifuge the cells at 200 x g for 5min, and remove the medium.
- 6. Resuspend the cells in culture medium and add the cells suspension to new culture dish.
- 7. Grow the cells in incubator with 37°C, 5 %CO₂.

Subcultivation Ratio: 1:3 to 1:8 weekly. Medium Renewal: Every 2 to 3 days



IV. REFERENCES

- 1. Mahoney KM1, Rennert PD2, Freeman GJ3. Combination cancer immunotherapy and new immunomodulatory targets [J].Nat Rev Drug Discov. 2015, 14 (8):561-584.
- 2. Francisco LM, Sage PT, Sharpe AH. The PD-1 pathway in tolerance and autoimmunity [J]. Immunological Reviews. 2010, 236: 219–242.

GenScript USA Inc,

860 Centennial Ave. Piscataway, NJ 08854

Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188, Fax: 1-732-210-0262

Email: product@genscript.com
Web: http://www.genscript.com
For Research Use Only.

860 Centennial Ave., Piscataway, NJ 08854, USA -



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