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Product Information

MemDX™ Human PDCD1 H22 Cell Line

Cat. No.: **S01YF-0123-KX11**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
PDCD1

Target Protein Species
Human

Accession Number
NM_005018.3

Protein Tag
Tag-free

Host Cell Type
H22

Target Classification
Immune Checkpoint

Target Family
Immune Checkpoint

Target Research Area
Autoimmune Research; Cancer Research; Immunology Research

Related Diseases
Systemic Lupus Erythematosus; Multiple Sclerosis

Product Properties

Morphology
Lymphoblastoid

Assay Types
Drug screening and biological assays

Resistance
Puromycin

Mycoplasma Testing

Negative

Sterility Testing

10 passages

Biosafety Level

Level 1

Activity

Yes

Quantity

5x10^6 cells

Form

Frozen cells

Freeze Medium

70% RPMI 1640 + 20% FBS + 10% DMSO

Culture Medium

RPMI 1640 + 10% FBS + 1μg/mL Puromycin

Selective Antibiotic(s)

Regular antibiotics active against mycoplasmas, bacteria and fungi.

Handling Notes

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.
Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.
Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Incubation

37°C with 5% CO_2

Applications

Drug screening and biological assays

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO_2 to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening andfunctional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

Programmed cell death 1

Introduction

Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity.

Alternative Names

PDCD1; PD1; PD-1; CD279; SLEB2; hPD-1; hPD-l; hSLE1; programmed cell death protein 1; programmed cell death 1 protein; protein PD-1; systemic lupus erythematosus susceptibility 2; Programmed cell death 1

Gene ID

5133

UniProt ID

Q15116