

Product Information

MemDX™ Human PD-L1 HEK293 Cell Line, Binding assay

Cat. No.: **S01YF-1022-KX161**

This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein

PD-L1

Target Protein Species

Human

Accession Number

NM_014143.3

Protein Tag

Tag-free

Host Cell Type

HEK293

Target Classification

Immune Checkpoint

Target Family

Immune Checkpoint

Target Research Area

Autoimmune Research; Cancer Research; Immunology Research

Related Diseases

Lymphoepithelioma-Like Carcinoma; Pleomorphic Carcinoma

Product Properties

Morphology

Adherent

Assay Types

Binding assay

Resistance

G418

Stability

> 15 passages

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Quantity

1x10⁶ cells

Form

Frozen cells

Freeze Medium

95% Culture Medium, 5% DMSO

Culture Medium

DMEM, 10% FBS, 400 µg/ml G418

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% CO₂

Applications

Binding assay or use as immunogen

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO₂ to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

CD274 molecule

Introduction

This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants.

Alternative Names

CD274; B7-H; B7H1; PDL1; PD-L1; hPD-L1; PDCD1L1; PDCD1LG1; programmed cell death 1 ligand 1; B7 homolog 1; CD274 antigen; PDCD1 ligand 1; CD274 molecule

Gene ID

[29126](#)

UniProt ID

[Q9NZQ7](#)