

# PE-Labeled Human PD-L1 / B7-H1 (19-238) Protein, His TagStar Staining

Catalog # PD1-HP2H3



BIOSYSTEMS  
**Acro**

## Synonym

PD-L1,CD274,B7-H1,PDCD1L1,PDCD1LG1

## Source

PE-Labeled Human PD-L1 (19-238) Protein, His Tag(PD1-HP2H3) is expressed from human 293 cells (HEK293). It contains AA Phe 19 - Arg 238 (Accession # [Q9NZQ7-1](#)).

Predicted N-terminus: Phe 19

## Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 39.5 kDa.

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in PBS, 0.2% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

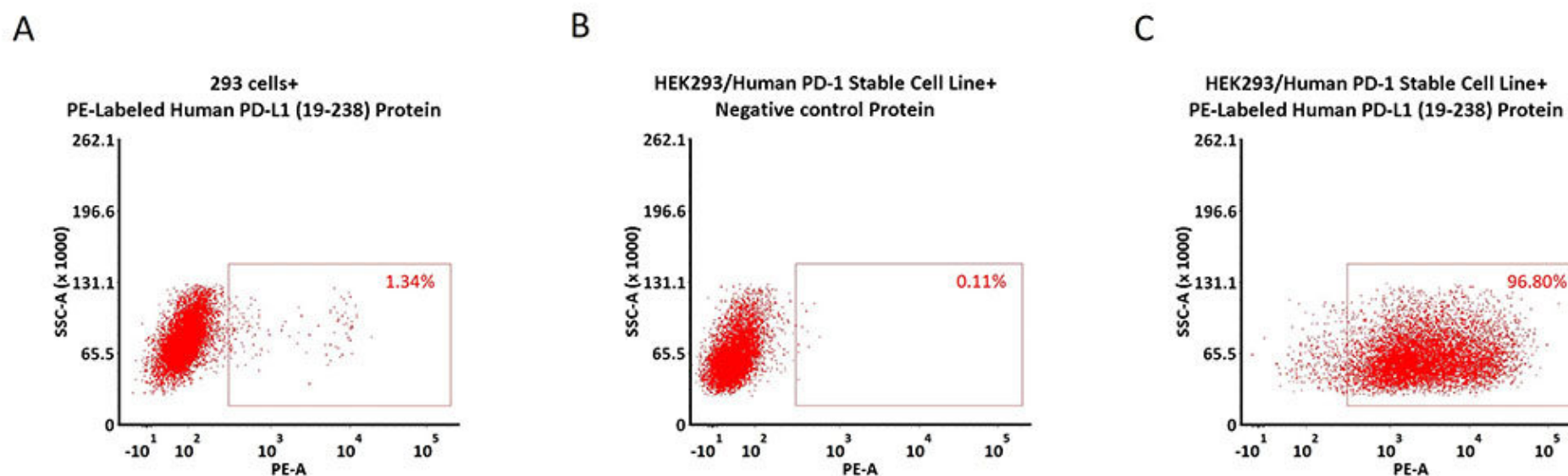
*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## Evaluation of CAR expression

FACS analysis of PE-Labeled Human PD-L1 (19-238) Protein binding cell surface Human PD-1



5e5 of HEK293/Human PD-1 Stable Cell Line were stained with 100  $\mu\text{L}$  of 1:10 dilution (10  $\mu\text{L}$  stock solution in 100  $\mu\text{L}$  FACS buffer) of PE-Labeled Human PD-L1 (19-238) Protein, His Tag (Cat. No. PD1-HP2H3) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). PE signal was used to evaluate the binding activity (QC tested).

## Background

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Programmed cell death 1 ligand 1 (PDL1) is also known as B7-H, B7H1, MGC142294, MGC142296, PD-L1, PDCD1L1 and PDCD1LG1, which is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. PDL1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. This protein is broadly expressed in the majority of peripheral tissues as well as hematopoietic cells. Interaction between PDL1 and its receptors belonging to the CD28 family of molecules provide both stimulatory and inhibitory signals in regulating T cell activation and tolerance. PDL1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression.

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