

# Anti-Human CD274 (PD-L1; B7-H1) (29E.2A3)



Biotin 274B-OIMG 100 test 1 µg/test 0,01 mg/ml **RUO**

## 1. PRODUCT DESCRIPTION

**Clone:** 29E.2A3;  
**Isotype:** IgG2b, κ;  
**Tested application:** flow cytometry;  
**Immunogen:** Full length human PD-L1;  
**Species reactivity:** Human;  
**Storage instruction:** store in the dark at 2-8 °C;  
**Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>);  
**Recommended usage:** Immunostep's CD274, clone 29E.2A3, is a monoclonal antibody intended for:  
 Flow cytometry immunophenotyping: identification and enumeration of monocytes/macrophages, granulocytes and dendritic cells. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells.  
 Exosomes detection: this product can be used in combination with #ExoStep Kit and #capture beads. For this application it could be necessary to assay with different quantities;  
**Presentation:** liquid;  
**Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;  
**Purification:** Affinity chromatography;  
**Other names:** PD-L1, B7-H1;  
**Gene ID:** 29126;  
**Molecular weight:** 40 kDa.

## 2. ANTIGEN DETAILS

**Large description:** CD274, also known as PD-L1 is a 40 kDa type I transmembrane protein that belongs to the B7 family of the Ig superfamily. PD-L1 binds to its receptor, PD-1, found on CD4 and CD8 thymocytes as well as activated T and B lymphocytes and myeloid cells. Engagement of PD-L1 with PD-1 leads to inhibition of TCR-mediated T cell proliferation and cytokine production (IL-10, IFN-γ). PD-L1 is thought to play an important role in tumor immune evasion. Induced PD-L1 expression is common in many tumors and results in increased resistance of tumor cells to CD8 T cell mediated lysis. The 29E.2A3 antibody has been shown to block the binding of PD-1-Ig to PD-L1. <sup>(8)</sup>

## 3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

## 4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

## 5. REFERENCES

1. Sharpe A, Wherry E, Ahmed R, Freeman G. The function of programmed cell death 1 and its ligands in regulating autoimmunity and infection. Nature Immunology. 2007;8(3):239-245.

## 6. EXPLANATION OF SYMBOLS

	Form
<b>REF</b>	Catalog reference
	Contains sufficient for > test
	Quantity per test
	Regulatory Status
<b>RUO</b>	Research Use Only
<b>[A]</b>	Concentration
	Manufacturer

## 7. MANUFACTURED BY:

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