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# 10-7648: Monoclonal Antibody to Mouse PD-L1 (Clone: 10F.9G2)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | 10F.9G2 |
| **Application :** | FACS |
| **Reactivity :** | Mouse |
| **Gene :** | Cd274 |
| **Gene ID :** | 60533 |
| **Uniprot ID :** | Q9EP73 |
| **Format :** | Purified |
| **Alternative Name :** | Programmed cell death 1 ligand 1, Programmed cell death 1 ligand 1, Programmed death ligand 1, B7-H1 |
| **Isotype :** | Rat IgG2b, k |
| **Immunogen Information :** | Mouse CD274 |

## Description

PD-L1 (CD274/B7-H1) is a critical membrane-bound costimulatory molecule belonging to the B7 superfamily that inhibits immune responses through its receptor, PD-1. PD-L1 plays a key role in the pathogenesis of inflammatory diseases (programmed death 1). It is widely expressed in the mononuclear phagocyte system (MPS), may co-stimulate T cells, and regulates inflammatory responses. PD-L1 exerts inflammation regulatory functions via a negative co-stimulatory effect on T cell functions to inhibit cytokine secretion, facilitate apoptosis of activated T cells and induce T cell anergy. Aberrant expression and dysregulation of CD274/PD-L1 have been reported during bacterial infection, inflammation, and in numerous autoimmune diseases.

## Product Info

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| **Amount :** | 25 µg / 100 µg |
| **Purification :** | Protein G Chromatography |
| **Content :** | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| **Storage condition :** | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

## Application Note

Flowcytometric Analysis: 0.2-0.4 µg/10^6 Cells

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***

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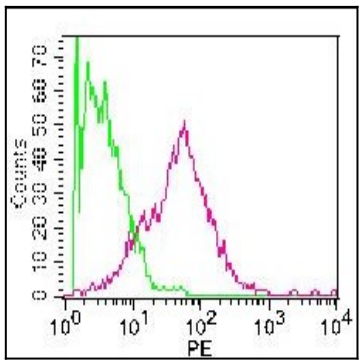



Figure 1: Cell surface staying of splenocytes stimulated with ConA + mIL2 for 3 days. Green represents Rat isotope control, red represents Anti-mouse PD-L1 (10-7648). 0.2 µg antibodies were used. Goat anti-rat PE was used as secondary antibody.

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