# Elab Fluor® 647 Anti-Mouse CD274/PD-L1 Antibody[10F.9G2]

**Catalog Number:** E-AB-F1132M

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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| **Reactivity** | Mouse |
| **Host** | Rat |
| **Isotype** | Rat IgG2b, κ |
| **Clone No.** | 10F.9G2 |
| **Isotype Control** | Elab Fluor® 647 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842M] |
| **Conjugation** | Elab Fluor®647 |
| **Conjugation Information** | Elab Fluor® 647 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter). |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. |

## Applications — Recommended usage

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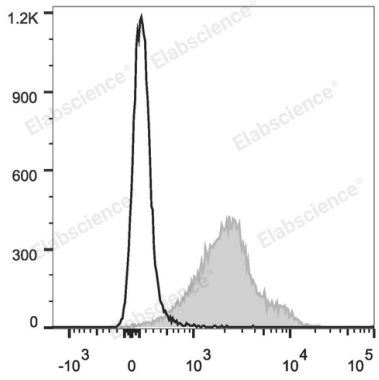
| **FCM** | Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. |

## Data




C57BL/6 murine splenocytes are stained with Elab Fluor® 647 Anti-Mouse CD274/PD-L1 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

## Preparation & Storage

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| **Storage** | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| **Shipping** | Ice bag |

## Antigen Information

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| **Alternate Names** | B7-H1;PD-L1;Programmed cell death ligand 1;B7 homolog 1;B7-H;B7H1;PDL1; PDCD1L1;PDCD1LG1 |
| **Uniprot ID** | Q9EP73 |
| **Gene ID** | 60533 |

**For Research Use Only**

**Background**

CD274, also known as B7-H1 or programmed death ligand 1 (PD-L1), is a 40 kD type I transmembrane protein and a member of the B7 family within the immunoglobulin receptor superfamily. It is expressed on T cells, B cells, NK cells, dendritic cells, IFN-γ activated endothelial cells, and monocytes. B7-H1 is one of the ligands of PD-1. The interaction of B7-H1 with PD-1 plays an important role in the inhibition of T cell responses. Other studies have shown that B7-H1 is able to costimulate T cell growth and cytokine production. CD274 is involved in costimulation essential for T cell proliferation and production of IL-10 and IFN-γ, in an IL-2-dependent and a PD-1-independent manner. Its interaction with PD-1 inhibits T cell proliferation and cytokine production.


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