

## AF/LE Purified Anti-Mouse CD274/PD-L1 Antibody[10F.9G2]

Catalog Number: GF11320

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

### Description

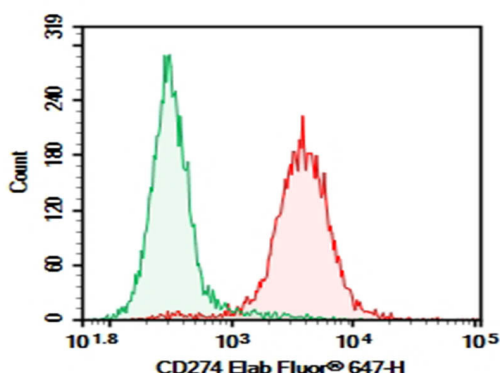
|              |   |
|--------------|---|
| Reactivity   | Mouse   |
| Immunogen    | Recombinant Mouse CD274/PD-L1 protein   |
| Host         | Rat   |
| Isotype      | Rat IgG2b, $\kappa$   |
| Clone        | 10F.9G2   |
| Purification | >98%, Protein A/G purified  |
| Conjugation  | None (AF/LE)  |
| Buffer       | Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method. |

### Applications

### Recommended Dilution

|     |   |
|-----|---|
| FCM | 2 $\mu\text{g/mL}$ ( $0.5 \times 10^6$ - $1 \times 10^6$ cells) |
|-----|---|

### Data



C57/BL6 Mouse splenocytes were stained with 0.2  $\mu\text{g}$  AF/LE Purified Anti-Mouse CD274/PD-L1 Antibody[10F.9G2] (Right) and 0.2  $\mu\text{g}$  Rat IgG2b,  $\kappa$  Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody.

### Preparation & Storage

|          |  |
|----------|--|
| Storage  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions. |
| Shipping | Ice bag  |

### 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- $\gamma$  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- $\gamma$ , in an IL-2-dependent and a PD-1-independent manner. Its interaction with PD-1 inhibits T cell proliferation and cytokine production.