

## Elab Fluor® 647 Anti-Mouse CD279/PD-1 Antibody[29F.1A12]

Catalog Number: E-AB-F1131UM

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

### Description

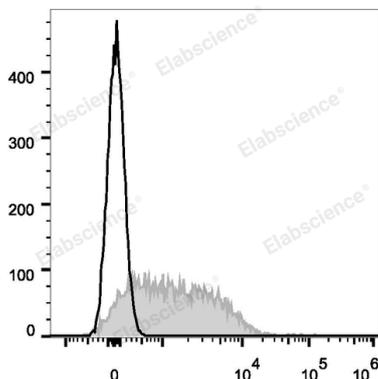
|                                |  |
|--------------------------------|--|
| <b>Reactivity</b>              | Mouse  |
| <b>Host</b>                    | Rat  |
| <b>Isotype</b>                 | Rat IgG2a, κ   |
| <b>Clone No.</b>               | 29F.1A12   |
| <b>Isotype Control</b>         | Elab Fluor® 647 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833M]   |
| <b>Conjugation</b>             | Elab Fluor® 647  |
| <b>Conjugation Information</b> | 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). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.  |

### Applications

### Recommended usage

|            |  |
|------------|--|
| <b>FCM</b> | Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 µg/10 <sup>6</sup> cells in 100 µL volume]. |
|------------|--|

### Data



Con-A stimulated C57BL/6 splenocytes (3 days) are stained with Elab Fluor® 647 Anti-Mouse CD279/PD-1 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

### Preparation & Storage

|                 |   |
|-----------------|---|
| <b>Storage</b>  | 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. |
| <b>Shipping</b> | Ice bag   |

### Antigen Information

|                        |                         |
|------------------------|-------------------------|
| <b>Alternate Names</b> | Programmed Death-1;PD-1 |
| <b>Uniprot ID</b>      | Q02242                  |
| <b>Gene ID</b>         | 18566                   |

### For Research Use Only

## Background

CD279, also known as programmed death-1 (PD-1), is a 50-55 kD glycoprotein belonging to the CD28 family of the Ig superfamily. PD-1 is expressed on activated splenic T and B cells and thymocytes. It is induced on activated myeloid cells as well. PD-1 is involved in lymphocyte clonal selection and peripheral tolerance through binding its ligands, B7-H1 (PD-L1) and B7-DC (PD-L2). It has been reported that PD-1 and PD-L1 interactions are critical to positive selection and play a role in shaping the T cell repertoire. PD-L1 negative costimulation is essential for prolonged survival of intratesticular islet allografts.