

## PerCP/Cyanine5.5 Anti-Mouse CD279/PD-1 Antibody[29F.1A12]

Catalog Number: GFH1131J

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

### Description

|                         |                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                |
| Host                    | Rat                                                                                                                                                                  |
| Isotype                 | Rat IgG2a, $\kappa$                                                                                                                                                  |
| Clone No.               | 29F.1A12                                                                                                                                                             |
| Isotype Control         | PerCP/Cyanine5.5 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832J]                                                                                     |
| Conjugation             | PerCP/Cyanine 5.5                                                                                                                                                    |
| Conjugation Information | PerCP/Cyanine5.5 is designed to be excited by the blue laser (488 nm) and detected using an optical filter centered near 675 nm (e.g., a 690/50 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                  |

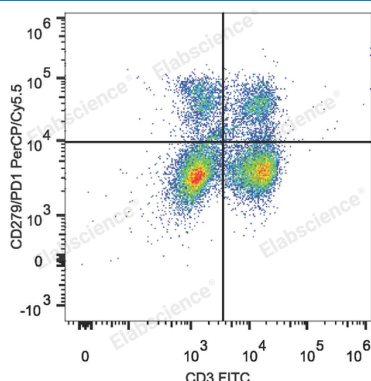
### Applications

### Recommended usage

#### 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  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L 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  
PerCP/Cyanine5.5 Anti-Mouse CD279/PD-1 Antibody FITC  
Anti-Mouse CD3 Antibody.

### Preparation & Storage

|          |                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag                                                                                                                                                   |

### Antigen Information

|                 |                         |
|-----------------|-------------------------|
| Alternate Names | Programmed Death-1;PD-1 |
| Gene ID         | 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.