

## PE/Cyanine7 Anti-Mouse CD279/PD-1 Antibody[29F.1A12]

Catalog Number: E-AB-F1131H

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

### Description

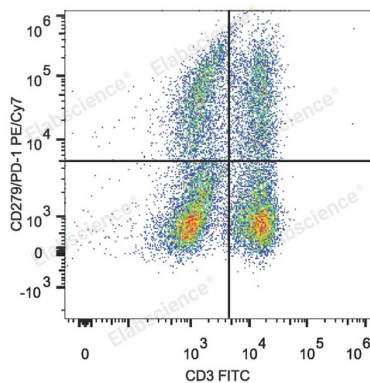
|                         |  |
|-------------------------|--|
| Reactivity              | Mouse  |
| Host                    | Rat  |
| Isotype                 | Rat IgG2a, $\kappa$  |
| Clone No.               | 29F.1A12   |
| Isotype Control         | PE/Cyanine7 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832H]  |
| Conjugation             | PE/Cyanine 7   |
| Conjugation Information | PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.  |

### Applications

### Recommended usage

|     |  |
|-----|--|
| FCM | Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 <math>\mu</math>L of antibody per test (million cells in 100 <math>\mu</math>L staining volume or per 100 <math>\mu</math>L of whole blood).</b> 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 PE/Cyanine7 Anti-Mouse CD279/PD-1 Antibody and 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 |
| Uniprot ID      | Q02242                  |
| 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.

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