

TECHNICAL DATA SHEET

# PE Anti-Human CD279 (PD-1) (J110)

Catalog Number: 50-2797

## PRODUCT INFORMATION

**Contents:** PE Anti-Human CD279 (PD-1) (J110)

**Isotype:** Mouse IgG1

**Concentration:** 5µl (1µg)/test

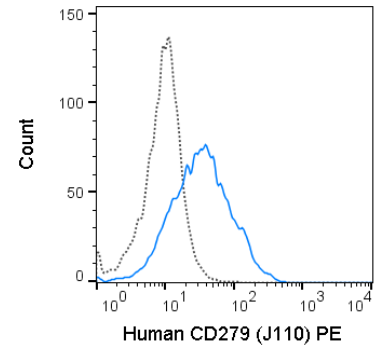
**Clone:** J110

**Reactivity:** Human

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2



Human PBMC were stimulated for 3 days with CD3/CD28/IL2 and stained with 5 µL (1 µg) PE Anti-Human CD279 (50-2797) (solid line) or 1 µg PE Mouse IgG1 isotype control (dashed line).

## DESCRIPTION

The J110 antibody is specific for human CD279, also known as programmed death-1 (PD-1). PD-1 is a 55 kDa glycoprotein member of the Ig superfamily and is expressed on activated T cells, B cells, and myeloid cells. PD-L1 (B7-H1) and PD-L2 (B7-DC) are ligands for CD279 and belong to the B7 gene family. PD-1 is an immune checkpoint and interaction with its ligands results in inhibition of T cell proliferation and cytokine secretion.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 µL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10<sup>5</sup> to 1x10<sup>8</sup> cells.

## REFERENCES

Freeman GJ, Long AJ, Iwai Y, et al. 2000. J Exp Med. 192:1027-1034. Latchman Y, Wood CR, Chernova T, et al. 2001. Nat Immunol. 2(3):261-268. Bennett F, Luxenberg D, Ling V, et al. 2003. J Immunol. 170(2):711-718.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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