

Product Data Sheet

Biotin anti-mouse CD279 (PD-1)

Catalog # / Size: 135211 / 50 μg

135212 / 500 µg

Clone: 29F.1A12 Isotype: Rat lgG2a, κ

Immunogen: PD-1 cDNA followed by PD-1-Ig fusion protein

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with

biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application References: 1. Good-Jacobson KL, et al. 2010. Nat. Immunol. 11:535. (FC) PubMed

Description: CD279, also known as programmed death-1 (PD-1), is a 50-55 kD

glycoprotein and belongs to the CD28 family of the Ig superfamily. PD-1 is expressed on activated splenic T and B lymphocytes 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 was 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.

Antigen References: 1. Nishimura H, et al. 2001. Science 291:319.

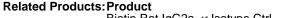
2. Agata Y, et al. 1996. Int. Immunol. 8:765.

3. Liang SC, et al. 2003. Eur. J. Immunol. 33:2706.

4. Barber DL, et al. 2006. Nature 439:682.

5. Keir ME, et al. 2005. J. Immunol. 175:7372.

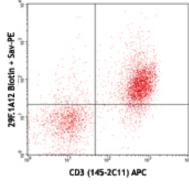
6. Koehn BH, et al. 2008. J. Immunol. 181:5313.



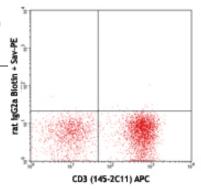
Biotin Rat IgG2a, κ Isotype Ctrl Cell Staining Buffer

RBC Lysis Buffer (10X)

TruStain fcX™ (anti-mouse CD16/32)



Con A-stimulated (3 days) C57BL/6 splenocytes stained with CD3 (145-2C11) APC and biotinylated anti-mouse PD-1 (clone 29F.1A12) followed by Sav-PE



Con A-stimulated (3 days) C57BL/6 splenocytes stained with CD3 (145-2C11) APC and biotinylated rat IgG2a, κ isotype control, followed by Sav-PE

Application FC, ICFC FC, ICC, ICFC FC, ICFC

FC'

Clone

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RTK2758



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