

# Product Data Sheet

## PerCP/Cy5.5 anti-mouse CD279 (PD-1)

**Catalog # / Size:** 135207 / 25 µg  
135208 / 100 µg

**Clone:** 29F.1A12

**Isotype:** Rat IgG2a, κ

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

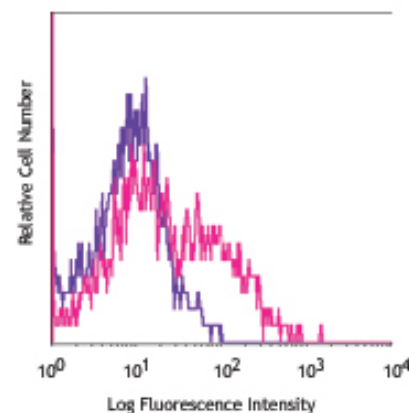
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

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

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Con-A stimulated C57BL/6  
splenocytes (3 days) stained with  
29F.1A12 PerCP/Cy5.5

## 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.  
\* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

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

**Description:** CD279, 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, 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.

### Related Products:

**Product**  
PerCP/Cy5.5 Rat IgG2a, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
TruStain fcX™ (anti-mouse CD16/32)

**Clone**  
RTK2758

93

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



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