SONY

Product Data Sheet

FITC anti-mouse CD279 (PD-1)

Catalog # / Size: 1276070 / 200 µg
1276065 / 50 µg

Clone: 29F.1A12

Isotype: Rat IgG2a, κ

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

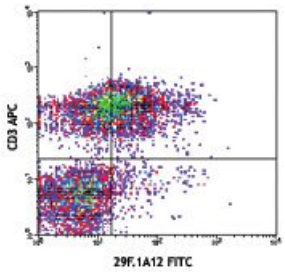
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.5

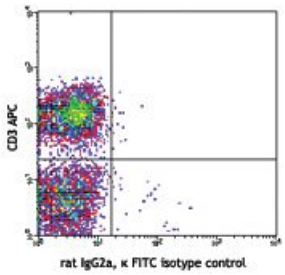


Con-A stimulated C57BL/6 mouse splenocytes (3 days) were stained with CD3 APC and CD279 (clone 29F.1A12) FITC (top) or rat IgG2a, κFITC isotype control (bottom).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric 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 Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue3 and *in vivo* blocking of PD-1 binding to its ligands[2,3].

Application References:

1. Good-Jacobson KL, *et al.* 2010. *Nat. Immunol.* 11:535. (FC) PubMed
2. Lazar-Molnar E, *et al.* 2008. *Proc. Natl. Acad. Sci. USA* 105:2658. (Block)
3. Liang SC, *et al.* 2003. *Eur. J. Immunol.* 33:2706. (FC, IHC, Block)

Description: 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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.