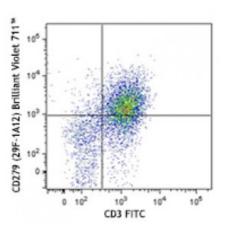
Brilliant Violet 711[™] anti-mouse CD279 (PD-1)

Catalog # / Size: Clone:	1276155 / 50 μg 29F.1A12
Isotype:	Rat IgG2a, к
Immunogen:	PD-1 cDNA followed by PD-1-Ig fusion protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 711 [™] and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



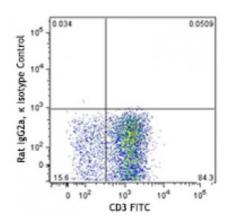
Con A-stimulated C57BL/6 splenocytes (three days) were stained with CD3 FITC and CD279 (clone 29F.1A12) Brilliant Violet 711[™] (top), or rat IgG2a, κ Brilliant Violet 711[™] isotype control (bottom).

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 ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711[™] excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711[™] is a trademark of Sirigen Group Ltd.

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	purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue3 and <i>in vivo</i> blocking of PD-1 binding to its ligands ^{2,3} .
Application References:	1. Good-Jacobson KL, <i>et al.</i> 2010. <i>Nat. Immunol.</i> 11:535. (FC) <u>PubMed</u> 2. Lázár-Molnár E, <i>et al.</i> 2008. <i>Proc. Natl. Acad. Sci. USA</i> 105:2658. (Block) 3. Liang SC, <i>et al.</i> 2003. <i>Eur. J. Immunol.</i> 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 lg 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.
Antigen References:	1. Nishimura H, <i>et al.</i> 2001. <i>Science</i> 291:319 2. Agata Y, <i>et al.</i> 1996. <i>Int. Immunol.</i> 8:765 3. Liang SC, <i>et al.</i> 2003. <i>Eur. J. Immunol.</i> 33:2706 4. Barber DL, <i>et al.</i> 2006. <i>Na</i>