SONY

Product Data Sheet

Brilliant Violet 421™ anti-mouse CD279 (PD-1)

Catalog # / Size: 1145605 / 50 µg

Clone: RMP1-30

Isotype: Rat IgG2b, κ

Immunogen: Mouse PD-1 transfected BHK cells

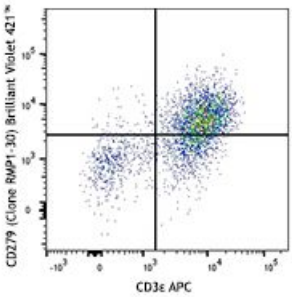
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



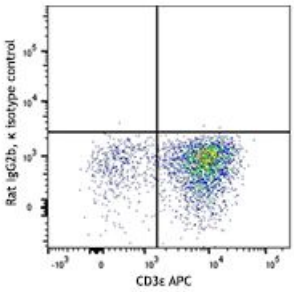
Con A (three-days) activated C57BL/6 splenocytes were stained with CD3ε APC and CD279 (clone RMP1-30) Brilliant Violet 421™ (top) or rat IgG2b, κ Brilliant Violet 421™ isotype control (bottom)

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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.



Application Notes: Additional reported application (for the relevant formats) include: Functional assay. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 109108). The RMP1-30 antibody does not block the binding of PD-1 to B7-H1 and B7-DC1.

Application References:

1. Matsumoto K, *et al.* 2004. *J. Immunol.* 172:2530.
2. Raimondi G, *et al.* 2006. *J. Immunol.* 176:2808. (FC) PubMed
3. King IL, *et al.* 2009. *J. Exp Med* 206:1001. (FC) PubMed

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Description: CD279 is a 50-55 kD immunoglobulin superfamily member also known as programmed death-1 (PD-1). PD-1 is expressed on a subset of $CD4^{-}CD8^{-}$ thymocytes and on activated T and B cells. PD-1 is thought to be involved in lymphocyte clonal selection and peripheral tolerance. The PD-1 ligands, PD-L1 (also known as B7-H1) and PD-L2 (B7-DC), are members of the B7 immunoglobulin superfamily.

Antigen References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Agata Y, *et al.* 1996. *Int. Immunol.* 8:765.
3. Nishimura H, *et al.* 2001. *Science* 291:319.
4. Ishida Y, *et al.* 1992. *EMBO J.* 11:3887.

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