SONY

Product Data Sheet

Brilliant Violet 421™ anti-mouse CD90.2 (Thy-1.2)

Catalog # / Size: 1301635 / 50 µg

Clone: 53-2.1

Isotype: Rat IgG2a, κ

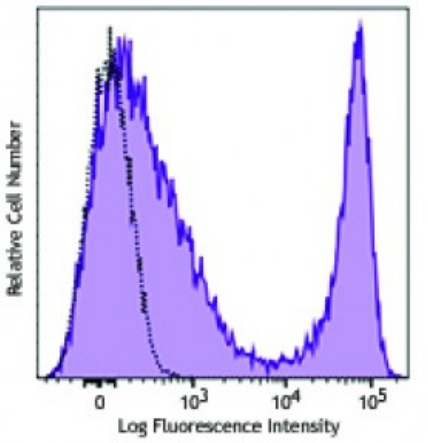
Immunogen: Mouse thymus or spleen

Reactivity: Mouse

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

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

Concentration: 0.5



C57BL/6 mouse splenocytes were stained with CD90.2 (clone 53-2.1) Brilliant Violet 421™ (filled histogram) or rat IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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 ≤0.03 microg per million cells in 100 microL 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 applications (for the relevant formats) include: immunohistochemical staining1 of frozen tissue section, immunofluorescence2, and immunoprecipitation3.

Application References:

1. Aldrich M, *et al.* 2003. *J. Immunol.* 171:5562. (IHC)
2. Jameson J, *et al.* 2004. *J. Immunol.* 172:3573. (IF)
3. Okada C, *et al.* 1990. *J. Immunol.* 144:3473. (IP)

Description: CD90.2 is a 25-35 kD immunoglobulin superfamily member also known as Thy-1.2, a GPI-linked membrane molecule. It is expressed on hematopoietic stem cells and neurons, all thymocytes, and peripheral T cells in Thy1.2 bearing mouse strains (Balb/c, CBA/J, C3H/He, C57BL/-, DBA, NZB/-). CD90.2 is a glycosylphosphatidylinositol (GPI)-anchored membrane glycoprotein involved in signal transduction. CD90.2 is involved in costimulation of lymphocyte proliferation and induction of hematopoietic stem cells differentiation. CD90.2 has been shown to interact with CD45.

Antigen References:

1. Borrello M, *et al.* 1996. *Cell. Immunol.*173:198.
2. Radrizzani M, *et al.* 1995. *J. Neurosci.* Res. 42:220.
3. Williams A, *et al.* 1982. *Science* 216:696.

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