SONY

Product Data Sheet

APC/Cyanine7 anti-mouse CD90.2 (Thy1.2)

Catalog # / Size: 1301655 / 25 µg
1301660 / 100 µg

Clone: 53-2.1

Isotype: Rat IgG2a, κ

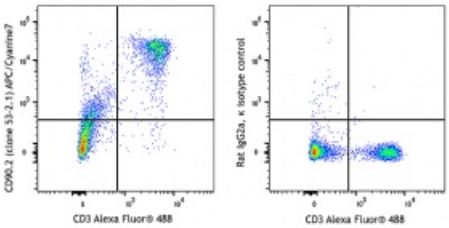
Immunogen: Mouse thymus or spleen

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

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

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with Alexa Fluor® 488 CD3 and CD90.2 (clone 53-2.1) APC/Cyanine7 (left) or Rat IgG2a, κ isotype control (clone RTK2758) APC/Cyanine7 (right).

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 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[1] of frozen tissue section, immunofluorescence[2], and immunoprecipitation[3]. Does not react with Thy-1.1 (CD90.1).

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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