

Product name:	PerCP/Cyanine5.5 Anti-Mouse CD90.2/Thy1.2 Antibody[30H12]
Cat number:	MAB1094UJ
Conjugate:	PerCP/Cyanine 5.5
Size:	100µg
Clone:	Monoclonal
Concentration:	0.2 mg/mL
Host:	Rat
Isotype:	Rat IgG2b, κ
Reactivity:	Mouse
Applications:	Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 µg/106 cells in 100 µL volume].
Form:	Liquid
Buffer:	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.
Storage:	This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.

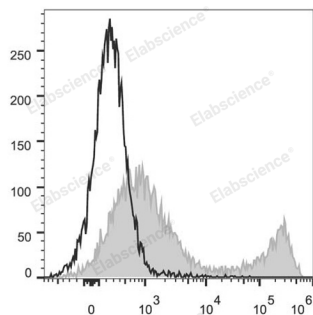
Background:

CD90.2 is a 25-35 kD immunoglobulin superfamily member also known as Thy1.2. 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. The 30H12 antibody has been reported to induce Ca²⁺ flux in thymocytes and, in combination with antibody against the CD3/TCR complex, promote thymocyte apoptosis and inhibit CD3-mediated proliferative responses of mature T lymphocytes.

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C57BL/6 murine splenocytes are stained with PerCP/Cyanine5.5 Anti-Mouse CD90.2 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

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