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**Product name:** Anti-Mouse CD90.2 Monoclonal  
Antibody(PE/Cyanine5.5 Conjugated)

**Catalog:** DL21099F

**Synonyms:** Thy-1.2 membrane glycoprotein, Thy1.2, Thy-1.2  
antigen, CD90.2, Thy-1.2

**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  $\text{Ca}^{2+}$  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.

**Form:** Liquid

**Isotype:** Rat IgG2b,  $\kappa$

**Size:** 25 $\mu\text{g}$ /100 $\mu\text{g}$

**Host:** Rat

**Reactivity:** Mouse

**Application:** FCM

**Concentration:** 0.2 mg/mL

**Conjugation:** PE/Cyanine5.5

**SwissProt:** P01831

**Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Recommended Use:

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  $\mu\text{g}/10^6\text{cells}$  in 100  $\mu\text{L}$  volume].

### Storage:

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.