

A Reliable Research Partner in Life Science and Medicine

Elab Fluor® 647 Anti-Mouse CD90.2/Thy1.2 Antibody[30H12]

Catalog Number: E-AB-F1094M

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse Host Rat

IsotypeRat IgG2b, κClone No.30H12

Isotype Control Elab Fluor® 647 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842M]

Conjugation Elab Fluor® 647

Conjugation Information Elab Fluor[®] 647 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter).

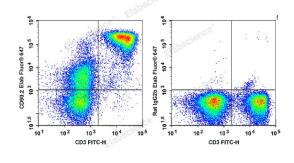
Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications Recommended usage

FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Data



C57BL/6 murine splenocytes are stained with Elab Fluor[®] 647 Anti-Mouse CD90.2 Antibody and FITC Anti-Mouse CD3 Antibody (Left). Splenocytes stained with FITC Anti-Mouse

CD3 Antibody and Elab Fluor $^{\circledR}$ 647 Rat IgG2b, κ Isotype Control (Right) are used as control.

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names CD90.2;Thy-1.2;Thy-1.2 antigen;Thy-1.2 membrane glycoprotein;Thy1.2

Gene ID 21838

For Research Use Only

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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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