# Elab Fluor® 488 Anti-Mouse CD90.2/Thy1.2 Antibody[30H12]

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| **Catalog No.** | E-AB-F1094UL | **Reactivity** | Mouse |
| **Storage** | Store at 2~8℃, Avoid freeze / thaw cycles | **Applications** | FCM |

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

## Antigen Information

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| **Alternate Names** | 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 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. |

## Product Details

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| **Form** | Liquid |
| **Concentration** | 0.5 mg/mL |
| **Size** | 25μg/100μg |
| **Clone No.** | 30H12 |
| **Host** | Rat |
| **Isotype** | Rat IgG2b, κ |
| **Reactivity** | Mouse |
| **Application** | FCM |
| **Isotype Control** | Elab Fluor® 488 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09843L] |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant. |
| **Shipping** | Biological ice pack at 4 ℃ |
| **Stability & Storage** | Keep as concentrated solution.<br>Store at 2~8℃ and protected from prolonged exposure to light.Do not freeze.<br>This product is guaranteed up to one year from purchase. |

## Fluorophore

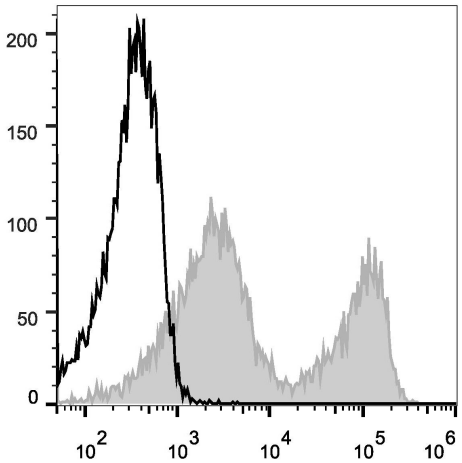
**Conjugation:** Elab Fluor® 488

Elab Fluor® 488 is designed to be excited by the Blue laser (488 nm) and detected using an optical filter centered near 520 nm (e.g., a 525/40 nm bandpass filter).

## Recommended usage

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/$10^6$ cells in 100 μL volume].

## Product data




C57BL/6 murine splenocytes are stained with Elab Fluor® 488 Anti-Mouse CD90.2 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

## Related Information

1. Sample Preparation for Flow Cytometry https://www.elabscience.com/List-detail-5594.html
2. Staining Cell Surface Targets for Flow Cytometry https://www.elabscience.com/List-detail-5568.html
3. Flow Cytometry Troubleshooting Tips https://www.elabscience.com/List-detail-5593.html
4. How to select the appropriate detection channel through the spectrogram? https://www.elabscience.com/List-detail-459742.html