

## Elab Fluor® Violet 450 Anti-Mouse CD90.2/Thy1.2 Antibody[30H12]

Catalog Number: E-AB-F1094UQ

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

### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, $\kappa$
<b>Clone No.</b>	30H12
<b>Isotype Control</b>	Elab Fluor® Violet 450 Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09843Q]
<b>Conjugation</b>	Elab Fluor® Violet 450
<b>Conjugation Information</b>	Elab Fluor® Violet 450 is designed to be excited by the violet laser (405 nm) and detected using an optical filter centered near 450 nm (e.g., a 450/45 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

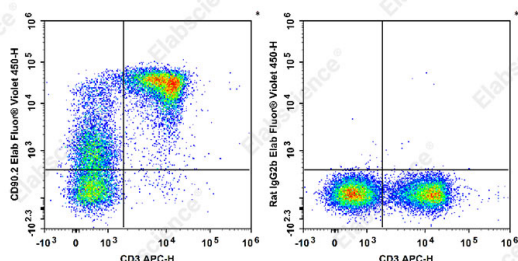
### Applications

### Recommended usage

#### FCM

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

### Data



C57BL/6 murine splenocytes are stained with APC Anti-Mouse CD3 Antibody and Elab Fluor® Violet 450 Anti-Mouse CD90.2 Antibody[30H12] (Left). Splenocytes are stained with APC Anti-Mouse CD3 Antibody and Elab Fluor® Violet 450 Rat IgG2b,  $\kappa$  Isotype Control (Right).

### Preparation & Storage

<b>Storage</b>	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.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	CD90.2;Thy-1.2;Thy-1.2 antigen;Thy-1.2 membrane glycoprotein;Thy1.2
<b>Gene ID</b>	21838

### For Research Use Only

## 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 Ca<sup>2+</sup> 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.