

AF/LE Purified Anti-Mouse CD90.2/Thy1.2 Antibody[30H12]

catalog number: E-AB-F10940

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

Description

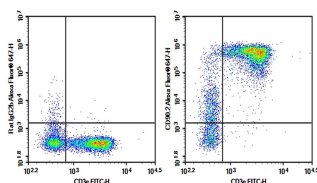
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|---------------------|--|
| Reactivity | Mouse |
| Immunogen | Recombinant Mouse CD90.2 protein |
| Host | Rat |
| Isotype | Rat IgG2b, κ |
| Clone | 30H12 |
| Purification | >98%, Protein A/G purified |
| Buffer | Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method |

Applications

Recommended Dilution

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|------------|---|
| FCM | 2 $\mu\text{g/mL}$ (1×10^5 - 5×10^5 cells) |
|------------|---|

Data



C57/BL6 Mouse splenocytes were stained with 0.2 μg AF/LE Purified Anti-Mouse CD90.2/Thy1.2 Antibody[30H12] (Right) and 0.2 μg Rat IgG2b, κ Isotype Control (Left), followed by Alexa Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody, then anti-Mouse CD3e FITC-conjugated Monoclonal Antibody.

Preparation & Storage

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| Storage | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions. |
| Shipping | Ice bag |

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^{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.

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