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

catalog number: E-AB-F1094A

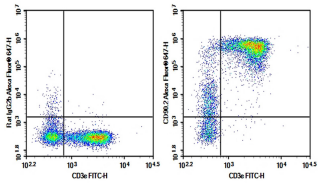
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Mouse
Immunogen	Recombinant Mouse CD90.2 protein
Host	Rat
Isotype	Rat IgG2b, κ
Clone	30H12
Purification	>98%, Protein A/G purified
Conjugation	Unconjugated
Buffer	Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling.

Applications	Recommended Dilution
FCM	2 μg/mL(1×10^5-5×10^5 cells)

Data



C57/BL6 Mouse splenocytes were stained with 0.2 μg 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

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
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 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.