

For Research Use Only

# FcZero-rAb™ APC-Cyanine7 Anti-Mouse CD90.2 (30-H12) Rabbit IgG Recombinant Antibody

Catalog Number: AY7-FcA65656



## Basic Information

Catalog Number:

AY7-FcA65656

Size:

100ug, 200 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC054436

GeneID (NCBI):

21838

UNIPROT ID:

P01831

Full Name:

thymus cell antigen 1, theta

Purification Method:

Protein A purification

CloneNo.:

30-H12

Recommended Dilutions:

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

650 nm / 778 nm

## Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : mouse thymocytes,

## Background Information

CD90 (Thy-1) is a 25 kDa, GPI-linked membrane glycoprotein that belongs to immunoglobulin superfamily (PMID: 6177036; 6153212). Originally described as a brain thymus cross-reactive antigen, it is found in large quantities on mouse and rat thymocytes and central nervous system cells (PMID: 83175). CD90 has been postulated to be involved in cellular recognition, adherence, and T cell activation (PMID: 7683034). Mouse CD90 (Thy-1) is defined as a differentiation alloantigen, represented as two serologically distinguishable allelic forms, designated CD90.1 (Thy-1.1) and CD90.2 (Thy-1.2) (PMID: 83175). CD90.2 is expressed by thymocytes, T cells, neurons and hematopoietic stem cells in most strains of mice (C3H, BALB/c, C57BL/6, DBA, and others), whereas CD90.1 is expressed in some mouse strains like AKR (PMID: 5919593).

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

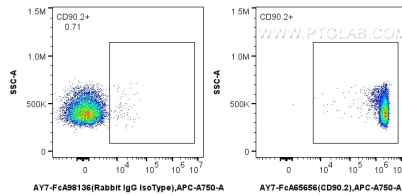
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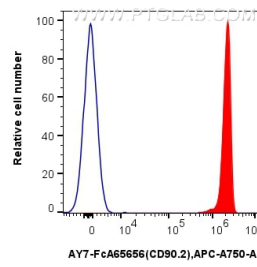
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## Selected Validation Data



1x10<sup>6</sup> mouse thymocytes were surface stained with 0.25 ug APC-Cyanine7 Anti-Mouse CD90.2 (30-H12) Rabbit IgG RecAb (AY7-FcA65656, Clone: 30-H12) or 0.25 ug Rabbit IgG Isotype Control RecAb (AY7-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.



1x10<sup>6</sup> mouse thymocytes were surface stained with 0.25 ug APC-Cyanine7 Anti-Mouse CD90.2 (30-H12) Rabbit IgG RecAb (AY7-FcA65656, Clone: 30-H12) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (AY7-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.