

# CoraLite® Plus 647 Anti-Mouse CD90.2 (30-H12)

Catalog Number: **CL647-65088**

## Basic Information

**Catalog Number:**

CL647-65088

**Size:**

100ug, 0.5 mg/ml

**Source:**

Rat

**Isotype:**

IgG2b, kappa

**GenBank Accession Number:**

BC054436

**GeneID (NCBI):**

21838

**Full Name:**

thymus cell antigen 1, theta

**Purification Method:**

Affinity purification

**CloneNo.:**

30-H12

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima wavelengths:**

654 nm / 674 nm

## Applications

**Tested Applications:**

FC, IF/ICC

**Species Specificity:**

Mouse

**Positive Controls:**

IF/ICC : BALB/c mouse splenocytes,

## 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 0.1% sodium azide and 0.5% BSA, pH 7.3.

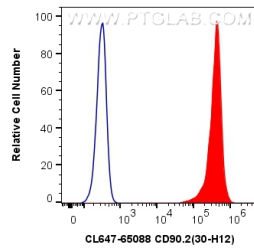
For technical support and original validation data for this product please contact:

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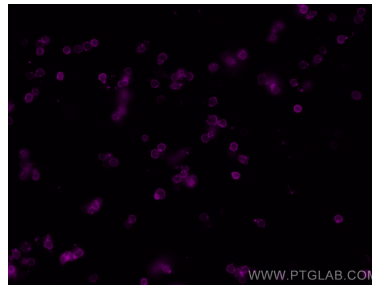
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## Selected Validation Data



$1 \times 10^6$  BALB/c mouse thymocytes were surface stained with 0.5  $\mu$ g CoraLite® Plus 647 Anti-Mouse CD90.2 (CL647-65088, Clone:30-H12) (red), or 0.5  $\mu$ g Control Antibody. Cells were not fixed.



Immunofluorescent analysis of BALB/c mouse splenocytes using CoraLite® Plus 647 CD90.2 antibody (CL647-65088, Clone: 30-H12 ) at dilution of 1:100.