

# CoraLite® Plus 647 Anti-Rat CD45RA (OX-33) Mouse IgG2a Recombinant Antibody

**Catalog Number:** CL647-65578

## Basic Information

**Catalog Number:**

CL647-65578

**Size:**

100ug, 500 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**GenBank Accession Number:**

XM\_006249910

**GeneID (NCBI):**

24699

**Full Name:**protein tyrosine phosphatase,  
receptor type, C**Calculated MW:**

143 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

OX-33

**Excitation/Emission maxima  
wavelengths:**

654 nm / 674 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

rat

## Background Information

CD45, also known as protein tyrosine phosphatase, receptor type C, is a type I transmembrane protein expressed on the surface of all haematopoietic cells with the exception of erythrocytes and platelets (PMID: 3489673; 28615666). CD45 is a pan-haematopoietic cell marker and has been shown to be essential for T- and B-cell activation and signaling (PMID: 9429890; 16378097). CD45 exists as multiple isoforms due to alternative splicing of three exons (4, 5, and 6, designated A, B, and C) in the extracellular domain (PMID: 12414720). CD45RA is expressed on naïve T cells, B cells, and monocytes (PMID: 1830500; 14687231).

## Storage

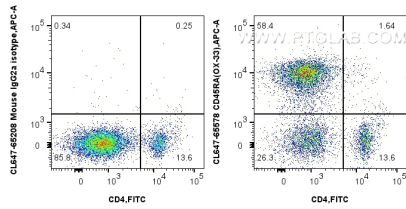
**Storage:**

Store at 2-8°C. Avoid exposure to light.

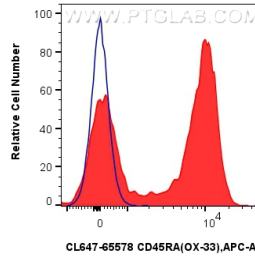
**Storage Buffer:**

PBS with 0.09% sodium azide.

## Selected Validation Data



1x10<sup>6</sup> rat splenocytes were surface stained with FITC Plus Anti-Rat CD4 and 0.25 ug CoraLite® Plus 647 Anti-Rat CD45RA Mouse IgG2a Recombinant Antibody (CL647-65578, Clone: OX-33), or CoraLite® Plus 647 Mouse IgG2a Isotype Control (CL647-65208, Clone: C1.18.4). Cells were not fixed.



1x10<sup>6</sup> rat splenocytes were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Rat CD45RA Mouse IgG2a Recombinant Antibody (CL647-65578, Clone: OX-33) (red), or CoraLite® Plus 647 Mouse IgG2a Isotype Control (CL647-65208, Clone: C1.18.4) (blue). Cells were not fixed.