

For Research Use Only

# CoraLite®594 Anti-Rat CD45RA (OX-33)



Catalog Number: **CL594-65234**

## Basic Information

|                                       |   |   |
|---------------------------------------|---|---|
| <b>Catalog Number:</b><br>CL594-65234 | <b>GenBank Accession Number:</b><br>XM_006249910                    | <b>Purification Method:</b><br>N/A                                |
| <b>Size:</b><br>100ug, 500 µg/ml      | <b>GeneID (NCBI):</b><br>24699                                      | <b>CloneNo.:</b><br>OX-33   |
| <b>Source:</b><br>Mouse               | <b>Full Name:</b><br>protein tyrosine phosphatase, receptor type, C | <b>Excitation/Emission maxima wavelengths:</b><br>588 nm / 604 nm |
| <b>Isotype:</b><br>IgG1, kappa        | <b>Calculated MW:</b><br>143 kDa                                    |   |

## 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 signalling (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 naive T cells, B cells, and monocytes (PMID: 1830500; 14687231).

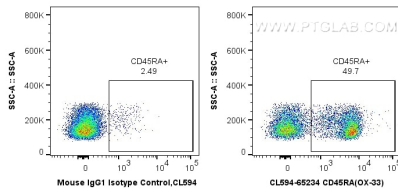
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide.

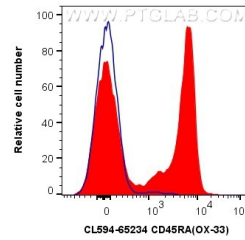
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1X10<sup>6</sup> rat splenocytes were surface stained with 0.5 ug CoraLite®594 Anti-Rat CD45RA (CL594-65234, Clone: OX-33), or 0.5 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21). Cells were not fixed.



1X10<sup>6</sup> rat splenocytes were surface stained with 0.5 ug CoraLite®594 Anti-Rat CD45RA (CL594-65234, Clone:OX-33) (red), or 0.5 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were not fixed.