

For Research Use Only

# CoraLite® Plus 488 Anti-Mouse CD45R (B220) (RA3-6B2)



Catalog Number: CL488-65139

## Basic Information

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Catalog Number:</b><br>CL488-65139 | <b>GenBank Accession Number:</b><br>BC028512                           | <b>Purification Method:</b><br>Affinity purification                  |
| <b>Size:</b><br>100ug, 500 µg/ml      | <b>GeneID (NCBI):</b><br>19264   | <b>CloneNo.:</b><br>RA3-6B2   |
| <b>Source:</b><br>Rat                 | <b>UNIPROT ID:</b><br>P06800   | <b>Recommended Dilutions:</b><br>IF 1:200-1:800                       |
| <b>Isotype:</b><br>IgG2a, kappa       | <b>Full Name:</b><br>protein tyrosine phosphatase,<br>receptor type, C | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>493 nm / 522 nm |

## Applications

|   |  |
|---|--|
| <b>Tested Applications:</b><br>IF/ICC, FC   | <b>Positive Controls:</b><br>IF : mouse splenocytes, |
| <b>Species Specificity:</b><br>Human, Mouse |  |

## 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). CD45R (B220) is an isoform of CD45, expressed on murine B-lineage cells (except for plasma cells) and on a small sub-population of T cells (PMID: 6975314; 15712182). It is commonly used as a pan B-cell marker in mice. CD45R is also expressed on activated T cells and NK cell subsets (PMID: 7514808; 17923504). The RA3-6B2 clone reacts with human and mouse CD45R.

## 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:

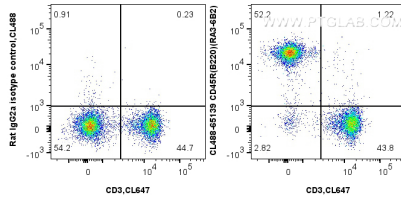
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

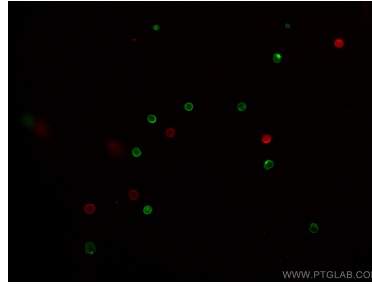
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface stained with 0.5 ug CoraLite® Plus 488 Anti-Mouse CD45R (B220) (CL488-65139, Clone:RA3-6B2) or 0.5 ug CoraLite® Plus 488 Rat IgG2a Isotype Control (2A3) (CL488-65209, Clone: 2A3), and 0.5 ug CoraLite® Plus 647 Anti-Mouse CD3 (17A2) (CL647-65077, Clone: 17A2). Cells were not fixed.



Immunofluorescent analysis of mouse splenocytes using CoraLite® Plus 488-conjugated CD45R (B220) antibody (CL488-65139, Clone: RA3-6B2, green) at dilution of 1:400, and CoraLite® Plus 647-conjugated CD3 antibody (CL647-65077, Clone: 17A2, red).