

For Research Use Only

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



Catalog Number: CL488-65139

## Basic Information

<b>Catalog Number:</b> CL488-65139	<b>GenBank Accession Number:</b> BC028512	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests, 5 µl/test	<b>GeneID (NCBI):</b> 19264	<b>CloneNo.:</b> RA3-6B2
<b>Source:</b> Rat	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, C	<b>Recommended Dilutions:</b> IF 1:200-1:800
<b>Isotype:</b> IgG2a, kappa		<b>Excitation/Emission maxima wavelengths:</b> 488 nm / 515 nm

## Applications

<b>Tested Applications:</b> FC, IF	<b>Positive Controls:</b> IF : mouse splenocytes,
<b>Species Specificity:</b> 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.

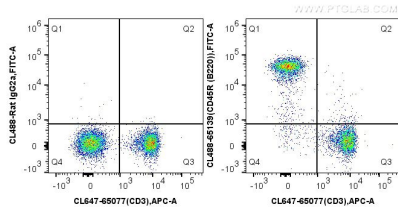
## Storage

**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.

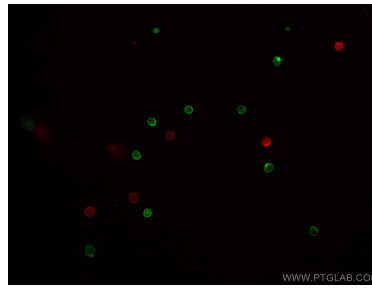
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



$1 \times 10^6$  C57BL/6 mouse splenocytes were surface stained with 5  $\mu$ l CoraLite® Plus 647 Anti-Mouse CD3 (17A2) (CL647-65077, Clone: 17A2) and CoraLite® Plus 488-conjugated Rat IgG2a isotype control (left) or 5  $\mu$ l CoraLite® Plus 488 Anti-Mouse CD45R (B220) (CL488-65139, Clone: RA3-6B2) (right). 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).