

# CoraLite<sup>®</sup> Plus 488 Anti-Mouse CD45R (B220) (RA3-6B2)

Catalog Number: **CL488-65139**

## Basic Information

**Catalog Number:**

CL488-65139

**Size:**

100ug, 500 µg/ml

**Source:**

Rat

**Isotype:**

IgG2a, kappa

**GenBank Accession Number:**

BC028512

**GeneID (NCBI):**

19264

**UNIPROT ID:**

P06800

**Full Name:**protein tyrosine phosphatase,  
receptor type, C**Purification Method:**

Affinity purification

**CloneNo.:**

RA3-6B2

**Recommended Dilutions:**

IF/ICC 1:200-1:800

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, FC

**Species Specificity:**

mouse

**Positive Controls:**

IF/ICC : mouse splenocytes,

## 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

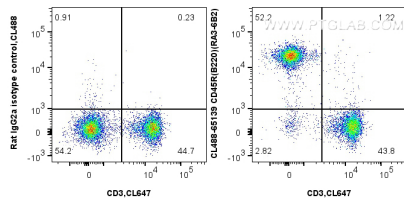
**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

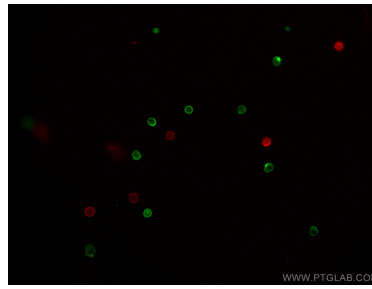
**Storage Buffer:**

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

## 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).