

Datasheet for ABIN7278467  
**anti-CD45 antibody (PerCP-Cy5.5)**



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1 Image

## Overview

|              |                                                 |
|--------------|-------------------------------------------------|
| Quantity:    | 100 µg                                          |
| Target:      | CD45 (PTPRC)                                    |
| Reactivity:  | Human, Mouse                                    |
| Host:        | Rat                                             |
| Clonality:   | Monoclonal                                      |
| Conjugate:   | This CD45 antibody is conjugated to PerCP-Cy5.5 |
| Application: | Flow Cytometry (FACS)                           |

## Product Details

|                   |                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clone:            | RA3-6B2                                                                                                                                                                                                                                                                                                                                    |
| Isotype:          | IgG2a kappa                                                                                                                                                                                                                                                                                                                                |
| Cross-Reactivity: | Cat                                                                                                                                                                                                                                                                                                                                        |
| Purification:     | This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze. |

## Target Details

|                   |                                                                                      |
|-------------------|--------------------------------------------------------------------------------------|
| Target:           | CD45 (PTPRC)                                                                         |
| Alternative Name: | CD45R (B220) ( <a href="#">PTPRC Products</a> )                                      |
| Background:       | The RA3-6B2 antibody reacts with the human and mouse CD45 isoform known as CD45R, or |

## Target Details

B220, a protein tyrosine phosphatase of 220 kDa. CD45 is one of the most abundant hematopoietic markers, and is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). Various isoforms are generated and expressed in cell-specific patterns, all critical for leukocyte function. In mouse, the CD45R/ B220 isoform is predominantly found on B cells, at varying levels on all stages from pro-B cells to activated B cells, and may also be detected on certain T cell and NK cell subsets. It is of note that B220 is not similarly expressed on human B cells, where it appears to be differentiation-specific and therefore expressed on only some B cell subsets. Other forms of CD45 with restricted cellular expression include CD45RA, CD45RB, CD45RO and several others. The RA3-6B2 antibody is one of the most consistently used leukocyte markers for B cells, T cell subsets and NK cell subsets in human and mouse. This antibody has also been reported as cross-reactive with feline CD45R/B220.

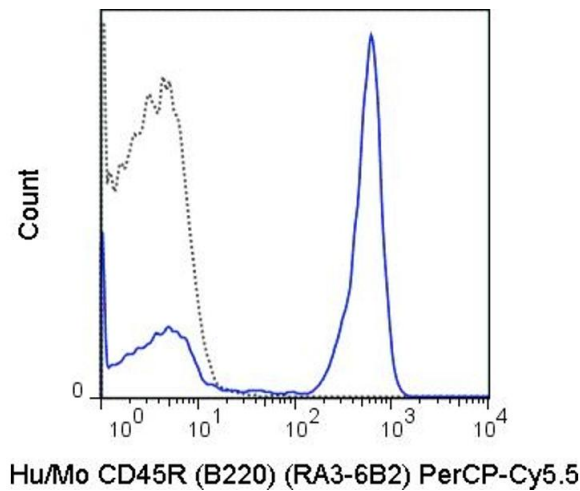
|           |                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID:  | 19264, 5788                                                                                                                                                                                                                                                                                                        |
| UniProt:  | <a href="#">P08575</a> , <a href="#">P06800</a>                                                                                                                                                                                                                                                                    |
| Pathways: | <a href="#">TCR Signaling</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">BCR Signaling</a> |

## Application Details

|                    |                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system. |
| Comment:           | 0.2 mg/mL                                                                                                                                                                                                                                                            |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Buffer:            | 10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09 % Sodium azide, 0.1 % gelatin, pH 7.2                       |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C                                                                                                                   |
| Storage Comment:   | 2-8°C protected from light                                                                                             |



Flow Cytometry

**Image 1.** C57Bl/6 splenocytes were stained with 0.25 µg PerCP-Cy5.5 Anti-Hu/Mo CD45R (B220) (ABIN6961676) (solid line) or 0.25 µg PerCP-Cy5.5 Rat IgG2a isotype control (dashed line).