# CD45/PTPRC Monoclonal Antibody

**catalog number: AN200165P**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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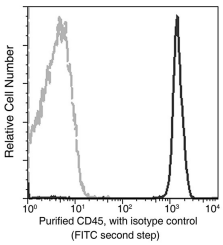
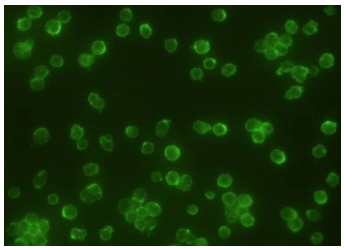
|---|---|
| **Reactivity** | Human |
| **Immunogen** | Recombinant Human CD45 protein |
| **Host** | Mouse |
| **Isotype** | IgG1 |
| **Clone** | 5A6 |
| **Purification** | Protein A |
| **Buffer** | 0.2 μm filtered solution in PBS |

| Applications | Recommended Dilution |
|---|---|
| **ICC/IF** | 1:20-1:100 |
| **FCM** | 1:25-1:100 |

## Data




Flow cytometric analysis of Human CD45 expression on human whole blood lymphocytes. Cells were stained with purified anti-Human CD45, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



Immunofluorescence analysis of Human CD45 in jurkat cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with mouse anti-Human CD45 monoclonal antibody (dilution ratio 1:60). Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to membrane.

## Preparation & Storage

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|---|---|
| **Storage** | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Shipping** | Ice bag |

## Background

CD45, previously called LCA (leukocyte common antigen), T200, or Ly5 in mice, is member C of the class 1 (recepto r-like) protein tyrosine phosphatase family (PTPRC). It is a variably glycosylated 180-220 kDa transmembrane protein that is abundantly expressed on all nucleated cells of hematopoietic origin . Multiple splicing isoforms of exon 4 (A), 5 (B), and 6 (C) are expressed according to cell type, developmental stage and antigenic exposure . The longest form, CD45RABC (called B220 in mouse) is expressed on B lymphocytes, The shortest form, CD45R0, lacking exons 4, 5 and 6 which encode aa 34-194, is expressed on memory cells, while intermediate sizes are expressed on other T cells.


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