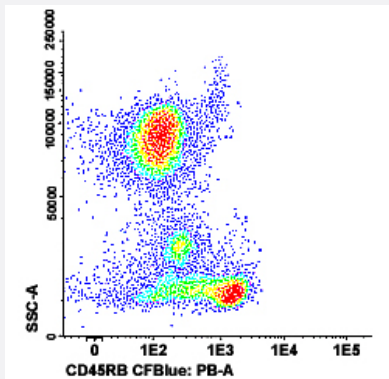


# CD45RB monoclonal antibody, clone MC5/2 (CF-Blue)

Catalog # MAB13683      Size 100 Reactions

## Applications



### Flow Cytometry

Flow cytometric analysis of human peripheral blood cells with CD45RB monoclonal antibody, clone MC5/2 (CF-Blue) (Cat # MAB13683).

## Specification

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against human CD45RB. |
| Immunogen            | T cells from leukemic HPB-ALL.                         |
| Host                 | Mouse                                                  |
| Theoretical MW (kDa) | 180-240                                                |
| Reactivity           | Human                                                  |
| Form                 | Liquid                                                 |
| Conjugation          | CF-Blue                                                |
| Purification         | Protein A/G purification                               |
| Purity               | >90%                                                   |
| Isotype              | IgG1                                                   |

**Recommend Usage**

Flow Cytometry (5  $\mu$ L/ $10^6$  cells)  
The optimal working dilution should be determined by the end user.

**Storage Buffer**

In PBS, pH 7.4 (protein stabilizer, 0.09% sodium azide).

**Storage Instruction**

Store in the dark at 4°C.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Flow Cytometry

Flow cytometric analysis of human peripheral blood cells with CD45RB monoclonal antibody, clone MC5/2 (CF-Blue) (Cat # MAB13683).

## Gene Info — PTPRC

**Entrez GeneID**

[5788](#)

**Protein Accession#**

[P08575](#)

**Gene Name**

PTPRC

**Gene Alias**

B220, CD45, CD45R, GP180, LCA, LY5, T200

**Gene Description**

protein tyrosine phosphatase, receptor type, C

**Omim ID**

[126200](#) [151460](#) [609532](#)

**Gene Ontology**

[Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extra cellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]

**Other Designations**

CD45 antigen|T200 glycoprotein|T200 leukocyte common antigen|glycoprotein|leukocyte-common antigen|protein tyrosine phosphatase, receptor type, c polypeptide

## Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Arthritis](#)
- [Ascariasis](#)
- [Autoimmune Diseases](#)
- [Cardiomyopathy](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hashimoto Disease](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Inflammatory Bowel Diseases](#)
- [Lupus Erythematosus](#)
- [Lymphopenia](#)
- [Multiple Sclerosis](#)
- [Paraparesis](#)

- [Scleroderma](#)
- [Severe combined immunodeficiency](#)
- [Thyroiditis](#)