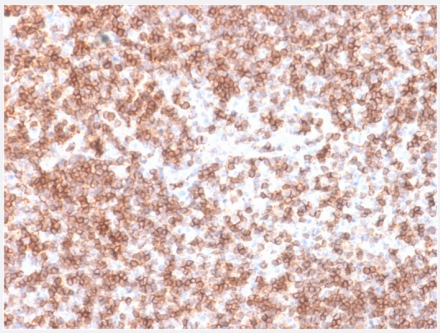
RecomAb™ Sm Size

# PTPRC recombinant monoclonal antibody, clone PTPRC/1975R

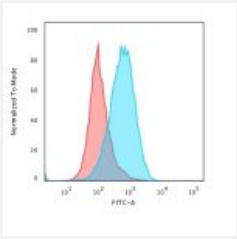
Catalog # RAB08981 Size 20 ug

## Applications



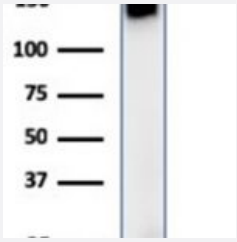
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human lymph node.



### Flow Cytometry

Flow cytometric analysis of Raji cells. Goat anti-rabbit IgG-CF488 (Blue) ; Isotype Control (Red).




### Western Blot (Tissue lysate)

Western Blot (tissue lysate) analysis of human spleen.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against full length human PTPRC. |

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|---|---|
| **Antibody Species** | Rabbit |
| **Immunogen** | Recombinant protein corresponding to full-length human PTPRC. |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A/G purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (1-2 ug/million cells)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL)<br>Western Blot (1-2 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 10 mM PBS (0.05% BSA and 0.05% azide) |
| **Storage Instruction** | Store at 4°C. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of human lymph node.

- Flow Cytometry

  Flow cytometric analysis of Raji cells. Goat anti-rabbit IgG-CF488 (Blue) ; Isotype Control (Red).

- Western Blot (Tissue lysate)

  Western Blot (tissue lysate) analysis of human spleen.

## 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 |

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| | |
|---|---|
| **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 c ell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extra cellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic dom ains, 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 sign aling. It functions through either direct interaction with components of the antigen receptor comple xes, or by activating various Src family kinases required for the antigen receptor signaling. This P TP 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 b een reported. [provided by RefSeq |
| **Other Designations** | CD45 antigen\|T200 glycoprotein\|T200 leukocyte common antigen\|glycoprotein\|leukocyte-commo n 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

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- Hepatitis B
- Hepatitis C
- HIV Infections
- Inflammatory Bowel Diseases
- Lupus Erythematosus
- Lymphopenia
- Multiple Sclerosis
- Paraparesis
- Scleroderma
- Severe combined immunodeficiency
- Thyroiditis

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