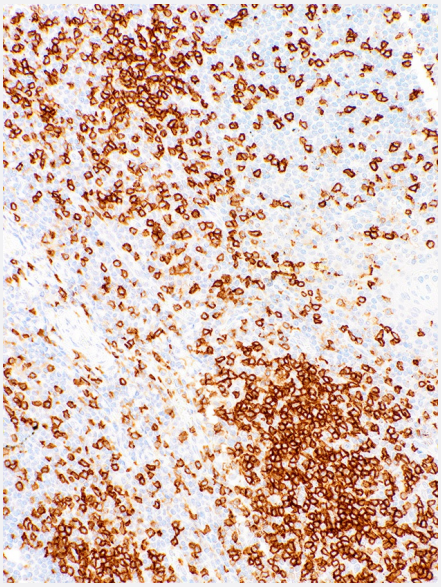
# CD45RO monoclonal antibody, clone IHC537

Catalog # MAB23807 Size 100 uL

## Applications



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

Immunohistochemical staining of tonsil tissue using CD45RO monoclonal antibody, clone IHC537.

## Specification

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|---|---|
| **Product Description** | CD45RO is an isoform of CD45 which is expressed in thymocytes, activated T-cells, and subpopulations of resting T-cells. It is a useful marker for T-cell tumours, as Anti-CD45RO demonstrates no reactivity with B-cells. Specifically, CD45RO is implicated in a number of T-cell lymphomas including angioimmunoblastic, lymphoblastic, peripheral, and subcutaneous panniculitis-like T-cell lymphomas. |
| **Host** | Mouse |
| **Form** | Liquid |
| **Isotype** | IgG2a |
| **Regulatory Status** | For research use only (RUO) |
| **Recommend Usage** | Immunohistochemistry (1:50-1:200)<br>The optimal working dilution should be determined by the end user. |

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|---|---|
| **Storage Buffer** | Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide. |
| **Storage Instruction** | Store at 4°C. Avoid multiple freeze-thaw cycles. |

## Applications

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

  Immunohistochemical staining of tonsil tissue using CD45RO monoclonal antibody, clone IHC537.

## Gene Info — PTPRC

| | |
|---|---|
| **Entrez GeneID** | 5788 |
| **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 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

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- 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

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