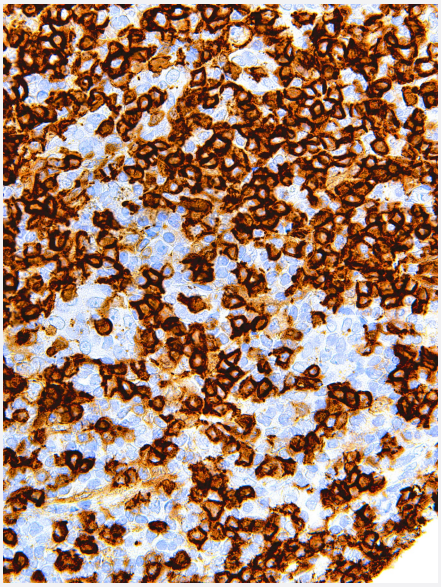
CD45RA monoclonal antibody, clone IHC536

Catalog # MAB23806 Size 100 uL

Applications



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

Immunohistochemical staining of tonsil tissue using CD45RA monoclonal antibody, clone IHC536.

Specification

Product Description	CD45R, also known as MB1, is an isoform of CD45 that is a member of the protein tyrosine phospha tase (PTPase) family. CD45R is expressed specifically on the surface of hematopoietic cells, and ha s demonstrated function as a regulator of the antigen and cytokine receptor signaling of B- and T-cell s. Given that the antigen is located in the membrane of all B-cells, with the exception of plasma cells and some mature T-cells, Anti-CD45R exhibits specific reactivity with most B-lymphocytes. The use of Anti-CD45R is primarily useful in distinguishing B-cell lymphomas from T-cell lymphomas, with spe cific reactivity to follicle center cells, mantle cells, some medullary thymocytes, and 80% of B-cell lymp homas.
Host	Mouse
Form	Liquid
Isotype	IgG1, kappa
Regulatory Status	For research use only (RUO)

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Recommend Usage	Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
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.

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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)

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- 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

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