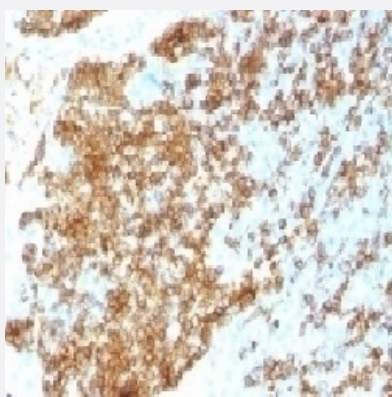


RecomAb™

PTPRC recombinant monoclonal antibody, clone PTPRC/1783R

Catalog # RAB03803 Size 100 ug

Applications



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

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of human tonsil with anti-CD45RB recombinant monoclonal antibody, clone PTPRC/1783R (Cat # RAB03803).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human B lymphocytes.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human B lymphocytes
Reactivity	Human
Form	Liquid
Conjugation	Unconjugated
Purification	Protein A affinity chromatography
Concentration	0.2 mg/mL
Isotype	IgG

Recommend Usage	Flow cytometry (0.5-1 ug/million cells in 0.1ml) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)(0.5-1 ug/mL for 30 min at RT) Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
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Storage Buffer	In PBS, 0.1 mg/ml BSA, 0.05% sodium azide
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Storage Instruction	Store at 2~8°C. Aliquot to avoid repeated freezing and thawing.
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Note	Optimal dilutions for each application to be determined by the researcher
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Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of human tonsil with anti-CD45RB recombinant monoclonal antibody, clone PTPRC/1783R (Cat # RAB03803).
- Immunofluorescence
- Flow Cytometry

Gene Info — PTPRC

Entrez GeneID	5788
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Protein Accession#	P08575
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Gene Name	PTPRC
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Gene Alias	B220, CD45, CD45R, GP180, LCA, LY5, T200
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Gene Description	protein tyrosine phosphatase, receptor type, C
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Omim ID	126200 151460 609532
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Gene Ontology	Hyperlink
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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 extracellular 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](#)