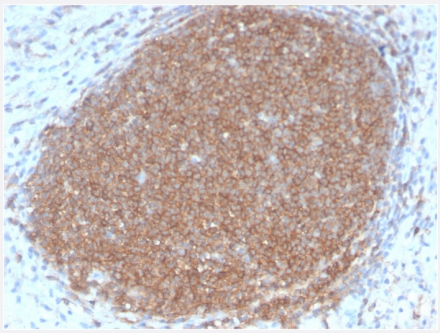
RecomAb™ Sm Size

PTPRC recombinant monoclonal antibody, clone PTPRC/2877R

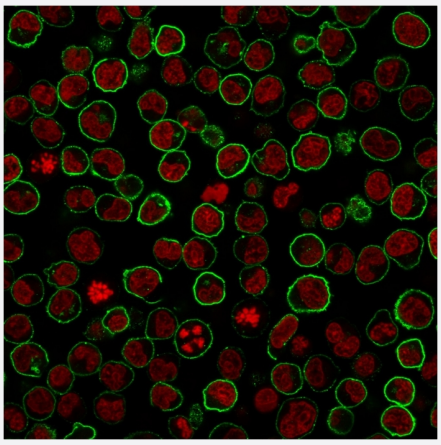
Catalog # RAB08983 Size 20 ug

Applications



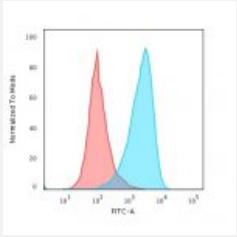
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human lymph node.



Immunofluorescence

Immunofluorescence staining of Raji cells. Goat anti-rabbit IgG-CF488 (Green) ; Counterstain is Phalloidin (red).



Flow Cytometry

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

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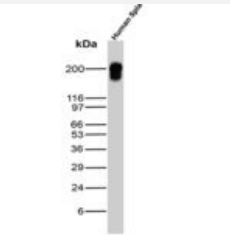

Western Blot (Tissue lysate)

Western Blot (tissue lysate) analysis of human spleen.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against full length human PTPRC.
Antibody Species	Rabbit
Immunogen	Recombinant protein corresponding to full-length human PTPRC.
Reactivity	Human
Specificity	This antibody does not react with rat or rhesus monkey.
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1-2 ug/million cells) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) Immunofluorescence (1-2 ug/mL) Western Blot (1-2 ug/mL) 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.

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- Immunofluorescence

  Immunofluorescence staining of Raji cells. Goat anti-rabbit IgG-CF488 (Green) ; Counterstain is Phalloidin (red).

- 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
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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