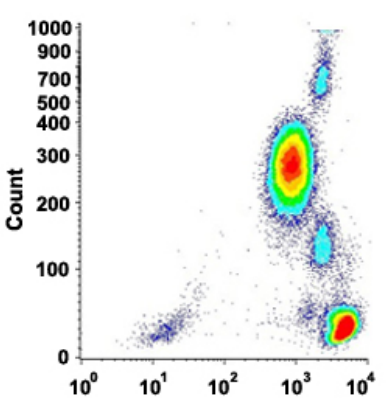
PTPRC monoclonal antibody, clone D3/9 (PE)

Catalog # MAB13929 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of human peripheral blood leukocytes with PTPRC monoclonal antibody, clone D3/9 (PE) (Cat # MAB13929).

Specification

Product Description	Mouse monoclonal antibody raised against human PTPRC.
Immunogen	T cell leukemia cell line HPB-ALL.
Host	Mouse
Theoretical MW (kDa)	180-220
Reactivity	Human
Form	Liquid
Conjugation	PE
Purification	Protein A/G purification
Purity	>90%
Isotype	IgG1

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Recommend Usage	Flow Cytometry (20 uL/10^6 cells) Immunohistochemistry (Frozen sections) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (protein stabilizer, 0.09% sodium azide).
Storage Instruction	Store in the dark at 4°C. Avoid prolonged exposure to light.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry

  Flow cytometric analysis of human peripheral blood leukocytes with PTPRC monoclonal antibody, clone D3/9 (PE) (Cat # MAB13929).

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

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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

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- Paraparesis
- Scleroderma
- Severe combined immunodeficiency
- Thyroiditis

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