

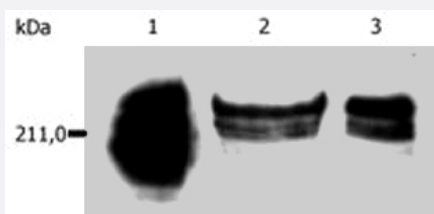
PTPRC monoclonal antibody, clone MEM-56

Catalog # MAB0887

Size 100 ug

Applications

Western Blot (Cell lysate)



Western blotting analysis of whole cell lysate of HUT-78 human cutaneous T cell lymphoma cell line. Lane 1 : Immunostaining with anti - human PTPRC control antibody. Lane 2 : Immunostaining with PTPRC monoclonal antibody, clone MEM - 56 (Cat # MAB0887) ; sample of cell lysate prepared under non - reducing conditions. Lane 3 : Immunostaining with PTPRC monoclonal antibody, clone MEM - 56 (Cat # MAB0887) ; sample of cell lysate prepared under reducing conditions.

Specification

Product Description	Mouse monoclonal antibody raised against native PTPRC.
Immunogen	Native purified PTPRC from human thymocytes and T lymphocytes.
Host	Mouse
Theoretical MW (kDa)	205-220
Reactivity	Human
Specificity	This antibody reacts with CD45RA, a 205-220 KDa single chain type I glycoprotein, variant of CD45 (CD45RA isoform). CD45RA is expressed on most of B lymphocytes, resting and native T lymphocytes, medullar thymocytes and monocytes.
Form	Liquid
Isotype	IgG2b
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction

Store at 4°C. Do not freeze.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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

- Immunoprecipitation

- Flow Cytometry

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 cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extra cellular 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](#)