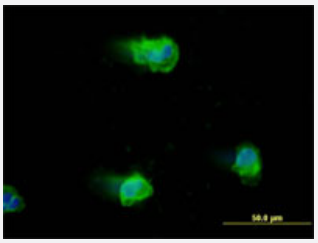
PTPRC monoclonal antibody, clone MEM-28

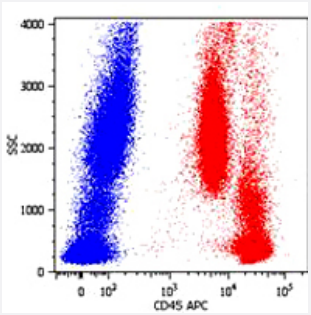
Catalog # MAB0886 Size 100 ug

Applications



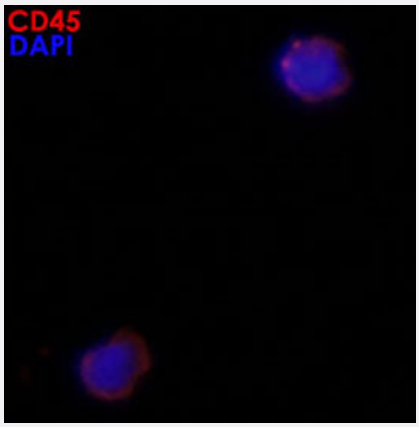
Immunofluorescence

Immunofluorescence of monoclonal antibody to CD45 on PBMCs cell . [antibody concentration 10 ug/ml]



Flow Cytometry

Surface staining of human peripheral blood cells with PTPRC monoclonal antibody, clone MEM - 28 (Cat # MAB0886) APC.



Immunofluorescence (Circulating Tumor Cell)

PBMCs were stained with CD45-R-PE labeled monoclonal antibody (Red). The cell nucleus were counterstained with DAPI (Blue).

Specification

Product Description	Mouse monoclonal antibody raised against native PTPRC.

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Immunogen	Native purified PTPRC from human thymocytes and T lymphocytes.
Host	Mouse
Theoretical MW (kDa)	180-220
Reactivity	Human
Specificity	This antibody reacts with all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 KDa single chain type I transmembrane protein expressed at high level on all cells of hem atopoietic origin, except erythrocytes and platelets.
Form	Liquid
Concentration	1 mg/mL
Isotype	IgG1
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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

  Immunofluorescence of monoclonal antibody to CD45 on PBMCs cell . [antibody concentration 10 ug/ml]

  Protocol Download
- Flow Cytometry

  Surface staining of human peripheral blood cells with PTPRC monoclonal antibody, clone MEM - 28 (Cat # MAB0886) APC.
- Immunoprecipitation
- Western Blot

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- Immunofluorescence (Circulating Tumor Cell)

  PBMCs were stained with CD45-R-PE labeled monoclonal antibody (Red). The cell nucleus were counterstained with DAPI (Blue).

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)
- Fc gamma R-mediated phagocytosis
- Primary immunodeficiency
- T cell receptor signaling pathway

Disease

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- 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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