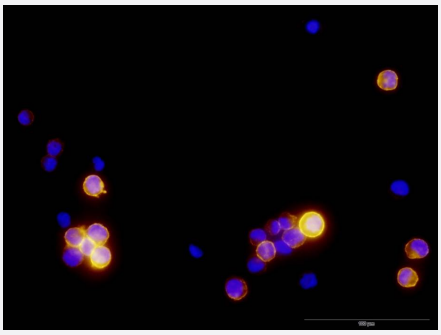
Anti-CD45 monoclonal antibody (PE)

Catalog # MAB23666-M01 Size 250 uL

Applications



Immunofluorescence

Immunofluorescence staining on Jurkat cells using Anti-CD45 monoclonal antibody (PE) shows positive result.

Specification

Product Description	Anti-CD45 monoclonal antibody (PE) is a phycoerythrin-conjugated monoclonal antibody for identification of cells expressing the CD45 antigen.
Immunogen	Human CD45
Clone Name	13513-BG
Host	Mouse
Specificity	This antibody reacts with human CD45.
Conjugation	PE
Isotype	IgG1, kappa
Storage Buffer	In 1x PBS (15 mM sodium azide, 0.2% BSA)
Storage Instruction	Store at 2-8°C in the dark.

Applications

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- Immunofluorescence

  Immunofluorescence staining on Jurkat cells using Anti-CD45 monoclonal antibody (PE) shows positive result.

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

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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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