

Datasheet for ABIN343727
anti-CD45 antibody (PE)



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3 Images

Overview

Quantity:	100 µg
Target:	CD45 (PTPRC)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Ms CD45 PE
Immunogen:	Murine peripheral blood leukocytes
Clone:	EM-05
Isotype:	IgG
Specificity:	The rat monoclonal antibody EM-05 reacts with an extracellular epitope of murine CD45 antigen (Leukocyte Common Antigen), a single chain type I transmembrane protein expressed at high level on cells of hematopoietic origin, except erythrocytes and platelets.
Cross-Reactivity (Details):	Mouse
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	Protein tyrosine phosphatase, receptor type, C,CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10 % of all surface proteins in lymphocytes. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing, these isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.,LCA, T200, LY5, GP180, TPC
Gene ID:	19264
UniProt:	Q8C6Q7
Pathways:	TCR Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , CXCR4-mediated Signaling Events , BCR Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL, positive control: murine peripheral blood leukocytes.
Restrictions:	For Research Use only

Handling

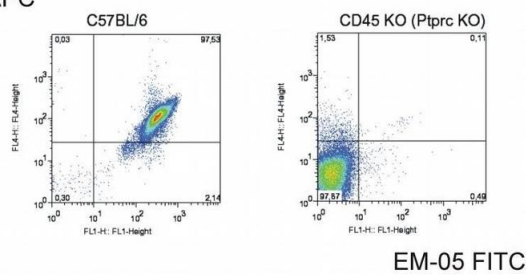
Concentration:	0.5 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

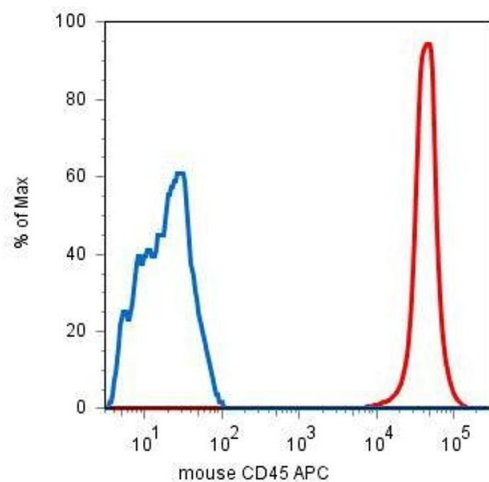
Images

ALI-4A2 APC



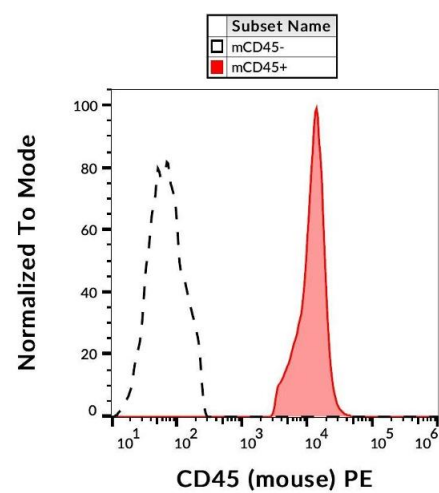
Flow Cytometry

Image 1. Surface staining of C57BL/6 cells and CD45 knock-out cells with anti-CD45 antibodies EM-05 and ALI-4A2.



Flow Cytometry

Image 2. Surface staining of mouse blood lymphocytes with anti-CD45 antibody -APC.



Flow Cytometry

Image 3. Surface staining of murine splenocytes with anti-CD45 antibody EM-05 PE.