





# CD45 Monoclonal Antibody (MEM-28), PE

Catalog Number MA1-19635 Product data sheet

Details	
Size	100 Tests
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Туре	Antibody
Clone	MEM-28
Immunogen	Human thymocytes and T lymphocytes.
Conjugate	PE
Form	Liquid
Purification	Size-exclusion chromatography
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	15mM sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Human
Tested Applications	Dilution *
Tested Applications Flow Cytometry (Flow)	Dilution * 20 µL/1x10^6 cells

<sup>\*</sup> Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Product specific information

This antibody reacts with all alternative forms of human CD45 antigen, and will not cross-react with equine.

### Background/Target Information

CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase (PTP) ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 is absent on non-hematopoietic cell lines, normal and malignant, non-hematopoietic tissues. 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, differ in their extracellular domains but share identical transmembrane and cytoplasmic domains. CD45RA is an isoform of the CD45 complex and has restricted expression between different subtypes of lymphoid cells. CD45 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. CD45 has been shown to be an essential regulator of T- and B-cell antigen receptor signaling and suppresses JAK kinases to regulate cytokine receptor signaling. CD45 is also important in promoting cell survival by modulating integrin-mediated signal transduction pathway, DNA fragmentation during apoptosis and inhibition or upregulation of various immunological functions.

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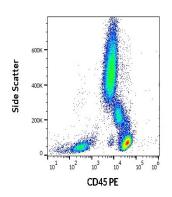
# Product Images For CD45 Monoclonal Antibody (MEM-28), PE

# 100 -

### CD45 Antibody (MA1-19635) in Flow

Separation of human lymphocytes (red-filled) from human CD45 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD45 (MEM-28) PE Monoclonal antibody (Product # MA1-19635) using a dilution of 20 µL reagent/100 µL of peripheral whole blood.

# CD45 Antibody (MA1-19635) in Flow



Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD45 (MEM-28) PE Monoclonal antibody (Product # MA1-19635) using a dilution of 20 µL reagent/100 µL of peripheral whole blood.

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