



Datasheet for ABIN94144  
**anti-CD45RB antibody (APC)**



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1 Publication

### Overview

Quantity:	100 tests
Target:	CD45RB
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45RB antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

### Product Details

Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-55
Isotype:	IgG1
Specificity:	The antibody MEM-55 recognizes a sialidase-sensitive extracellular epitope of CD45RB, a 180-240 kDa single chain type I membrane glycoprotein, variant of CD45 (CD45RB isoform). CD45RB is expressed on a subset of T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

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Target:	CD45RB
Alternative Name:	CD45RB ( <a href="#">CD45RB Products</a> )
Background:	CD45RB is an of a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45 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. CD45RB is expressed e.g. in microglia and inflammatory cells.,PTPRCR, T200RB

## Application Details

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Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

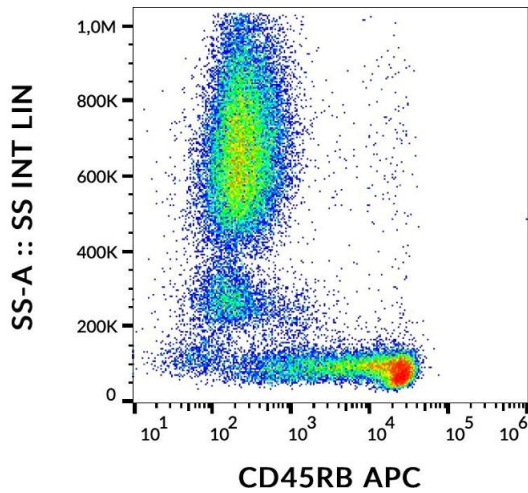
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Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b> Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Product cited in:

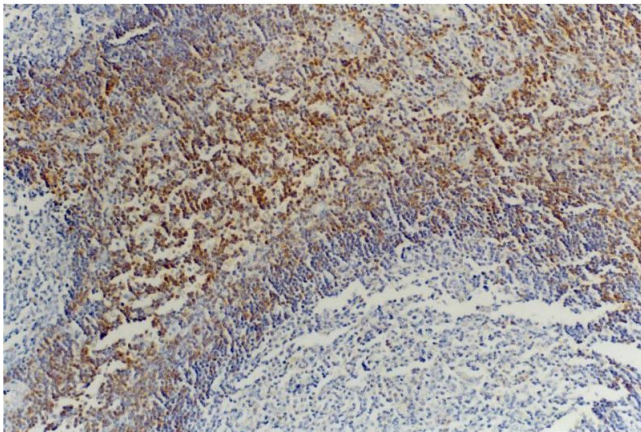
Koethe, Zander, Köster, Annan, Ebenfelt, Spencer, Bemark: "Pivotal advance: CD45RB glycosylation is specifically regulated during human peripheral B cell differentiation." in: **Journal of leukocyte biology**, Vol. 90, Issue 1, pp. 5-19, (2011) ([PubMed](#)).

Images



Flow Cytometry

**Image 1.** Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD45RB (MEM-55) APC.



Immunohistochemistry

**Image 2.** Immunohistochemistry of paraffin-embedded sections (tonsil) Immunohistochemistry staining of tonsil (paraffin-embedded sections) with anti-CD45RB (MEM-55).