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Datasheet for ABIN94143 anti-CD45RB antibody (PE)

2 Images

1 Publication



Overview

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

Product Details

Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-55
Isotype:	lgG1
Specificity:	The antibody MEM-55 recognizes a siliadase-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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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Target Details

Target:	CD45RB
Alternative Name:	CD45RB (CD45RB Products)
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	
Application Notes:	
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μL reagent
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μL reagent / 100 μL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Application Notes: Comment:	/ 100 μ L of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for
	/ 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
	 / 100 µL of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The

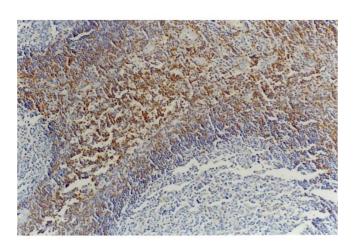
Handling

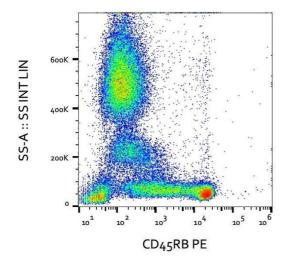
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	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.

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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





Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded sections (tonsil) Immunohistochemistry staining of tonsil (paraffin-embedded sections) with anti-CD45RB (MEM-55).

Flow Cytometry

Image 2. Surface staining of human peripheral blood with anti-CD45RB (MEM-55) PE.

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