

anti-human CD45RB PE-conjugated

PE -conjugated monoclonal antibody MEM-55 to human CD45RB

Cat-No: **21278454**

500 µl

Clone: MEM-55

Specificity: The antibody MEM-55 recognizes a sialidase-sensitive 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.

HLDA III; WS Code NL 358

HLDA IV; WS Code NL 2

HLDA V; WS Code T T-151

HLDA V; WS Code T T-CD45.08

Isotype subclass: Mouse IgG1

Immunogen: Human thymocytes and T lymphocytes.

Form: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing BSA and 15 mM sodium azide, pH 7.4

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

Application: The reagent is designed for Flow Cytometry analysis of human blood cells.

References: Horejsi V. et al. Folia Biol. (Praha) 34, 23 (1988)

Bazil V. et al., Immunogenetics 29, 202 (1989)

Leucocyte Typing V. Schlossman S. et al (Eds.), Oxford University Press (1995).

Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).

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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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