

anti-human CD45RA PE-conjugated

PE- conjugated monoclonal antibody MEM-56 to human CD45RA

Cat-No: **21279454**

500 µl

Clone: MEM-56

Specificity: The antibody MEM-56 reacts with CD45RA, a 205-220 kDa single chain type I glycoprotein, variant of CD45 (CD45RA isoform). CD45RA is expressed on most of B lymphocytes, resting and native T lymphocytes, medullar thymocytes and monocytes.

HLDA IV; WS Code NL 907

Isotype subclass: Mouse IgG2b

Immunogen: Human thymocytes and T lymphocytes.

Formulation: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The reagent is free of unconjugated R-PE and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing protease-free 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. Avoid prolonged exposure to light.

Application: Flow Cytometry

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

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

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

Background: CD45RA is a high molecular weight isoform 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. CD45RA is expressed e.g. on naïve T cells and normal plasma 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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