

## anti-human CD45RA Biotin-conjugated

Biotin-conjugated monoclonal Antibody MEM-56 to CD45RA (Human)

Cat-No: **21279452**

**50 µg in 100 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

**Form:** The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2).

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

**Storage conditions:** Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:**

Flow Cytometry

Immunoprecipitation

Western Blotting

Immunofluorescence

Immunohistochemistry: (paraffin sections)

**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.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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