# anti-human CD45RB

## Monoclonal Antibody MEM-55 to CD45RB (Human)

Cat-No: **21278451** 100 µg in 100 µl

**Clone:** MEM-55

**Specificity:** The antibody MEM-55 recognizes a siliadase-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

**Form:** Purified from ascites by protein-A affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**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
Immunohistochemistry: (paraffin sections) No pre-treatment of tissue sections is essential.

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

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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