

anti-human CD45RO

Monoclonal antibody UCHL1 to human CD45RO

Cat-No: **21336451**

100 µg in 100 µl

Clone: UCHL1

Specificity: The antibody UCHL1 recognizes CD45RO, a 180 kDa low molecular weight isoform of the leukocyte common antigen (LCA). The antigen is expressed on a subset of memory/activated T cells and on cortical thymocytes.

HLDA III; WS Code NL 826, HLDA III; WS Code T 128, HLDA IV; WS Code NL 31, HLDA V; WS Code BP BP460, HLDA V; WS Code T T-081, HLDA V; WS Code T T-CD45.43

Isotype subclass: Mouse IgG2a

Form: Purified from ascites by protein-A affinity chromatography

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, Immunofluorescence

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

Background: **CD45RO** is the shortest 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. CD45RO is expressed e.g. on macrophages, CD8+ T cells, activated T cells and myeloma 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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