Monoclonal Antibody to CD45R0
PE-Cy™7 conjugated (100 tests)

Clone: UCHL1
Isotype: Mouse IgG2a
Specificity: The antibody UCHL1 recognizes CD45R0, 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

Regulatory Status: RUO
Immunogen: Human IL-2 dependent T cells
Species Reactivity: Human
Preparation: The purified antibody is conjugated with tandem dye PE-Cy™7 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.
The content of a vial (0.4 ml) is sufficient for 100 tests.
Expiration: See vial label
Lot Number: See vial label
Background: CD45R0 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. CD45R0 is expressed e.g. on macrophages, CD8+ T cells, activated T cells and myeloma cells.
References:

*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
*And many other.

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