Monoclonal Antibody to CD45R0
Purified Antibody (0.1 mg)

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
Application: Flow Cytometry
Application note: Use 10 µl of the suggested working dilution to label 10^6 cells in 100 µl.
Immunoprecipitation
Immunohistochemistry (paraffin sections)
Pretreatment: This product does not require protein digestion pretreatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Positive tissue: tonsil
Immunohistochemistry (frozen sections)
Positive tissue: tonsil
Purity: > 95% (by SDS-PAGE)
Purification: Purified by protein-G affinity chromatography
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label

For laboratory research only, not for drug, diagnostic or other use.
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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