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TECHNICAL DATA SHEET

Biotin Anti-Human CD45RO (UCHL1)

Catalog Number: 30-0457

PRODUCT INFORMATION

Contents: Biotin Anti-Human CD45RO (UCHL1)

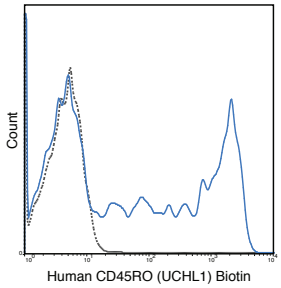
Isotype: Mouse IgG2a, kappa

Concentration: 0.5 mg/mL

Clone: UCHL1

Reactivity: Human

Formulation: 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, pH7.2



Human peripheral blood lymphocytes were stained with 0.125 ug Biotin Anti-Human CD45RO (30-0457) (solid line) or 0.125 ug Biotin Mouse IgG2a isotype control (dashed line), followed by Streptavidin PE.

DESCRIPTION

The UCHL1 antibody reacts with the human CD45 isoform known as CD45RO, a protein tyrosine phosphatase of 220 kDa. CD45 is one of the most abundant hematopoietic markers, and is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). Various isoforms are generated and expressed in cell-specific patterns. With their broad cell distribution, CD45 isoforms are critical for many leukocyte functions, regulating signal transduction and cell activation associated with the T cell receptor, B cell receptor, and IL-2 receptor. Other forms of CD45, with restricted cellular expression, include CD45R (B220), CD45RA, CD45RB, and others. The UCHL1 antibody is widely used as a marker for human CD45RO expression on thymocytes, activated memory T cells, monocytes, macrophages and granulocytes. The antibody is reported to be cross-reactive for Chimpanzee CD45RO.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted biotin removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using an appropriate cell type. The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

REFERENCES

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