

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

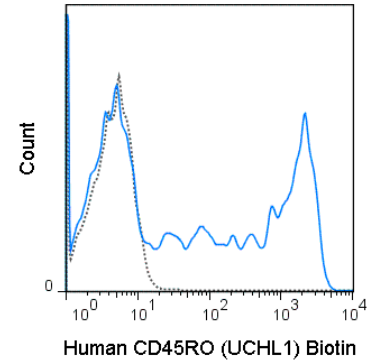
Clone: UCHL1

Reactivity: Human

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, pH 7.2



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 and CD45RB. 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 mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

REFERENCES

- Imanguli MM, Swaim WD, League SC, Gress RE, Pavletic SZ, and Hakim FT. 2009. *Blood*. 113: 3620-3630. (Immunohistochemistry - paraffin embedded tissue)
 Di Carlo E, D'Antuono T, Pompa P, Giuliani R, Rosini S, Stuppia L, Musiani P, and Sorrentino C. 2009. *Clin. Cancer Res*. 15: 2979-2987. (Immunohistochemistry - paraffin embedded tissue)
 Kap YS, van Meurs M, van Driel N, Koopman G, Melief M-J, Brok HPM, Laman JD, and 't Hart BA. 2009. *J. Histochemistry & Cytochemistry*. 57: 1159-1167. (Immunohistochemistry - Chimpanzee frozen tissue)
 Bonzheim I, Geissinger E, Tinguely M, Roth S, Grieb T, Reimer P, Wilhelm M, Rosenwald A, Muller-Hermelink HK, and Rudiger T. 2008. *Am. J. Clin. Pathol*. 130: 613-619. (Immunofluorescence microscopy – frozen tissue)
 Kim M-H, Suh H-S, Si Q, Terman BE, and Lee SC. 2006. *J. Virol*. 80: 62-72. (Western Blot)
 Cappione AJ, Pugh-Bernard AE, Anolik JH, and Sanz I. 2004. *J. Immunol*. 172: 4298-4307. (Immunoprecipitation)
 Gougeon ML, Lecoer H, Boudet F, Ledru E, Marzabal S, Boullier S, Roue R, Nagata S, and Heeney J. 1997. *J. Immunol*. 158: 2964-2976. (Flow cytometry – Chimpanzee)
 Kulas DT, Freund GG, and Mooney RA. 1996. *J. Biol. Chem*. 271: 755-760. (Immunoprecipitation, Western Blot)

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.