

TECHNICAL DATA SHEET

# Purified Anti-Human CD45RO (UCHL1)

Catalog Number: 70-0457

## PRODUCT INFORMATION

**Contents:** Purified Anti-Human CD45RO (UCHL1)

**Isotype:** Mouse IgG2a, kappa

**Concentration:** 0.5 mg/mL

**Clone:** UCHL1

**Reactivity:** Human

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, pH7.2

## 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 preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

## APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

## 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, Lecoeur 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)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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