

## Datasheet

### CD45RO monoclonal antibody, clone UCHL-1+T200/797

**Catalog Number:** MAB14694

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against human CD45RO.

**Clone Name:** UCHL-1+T200/797

**Immunogen:** Cultured human T-cells from an IL-2-dependent T-cell line (CA1) (UCHL-1) and Human T-lymphocytes (T200/797).

**Host:** Mouse

**Reactivity:** Human

**Applications:** Flow Cyt, IF, IHC-P  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** Recognizes a 180-185kDa protein, identified as isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. It rarely stains NK cells or B-cell lymphomas.

**Form:** Liquid

**Purification:** Protein A/G purification

**Isotype:** IgG2a, kappa

**Recommend Usage:** Flow Cytometry (0.5-1 ug/million cells)  
Immunofluorescence (0.5-1 ug/mL)  
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL)  
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In 10 mM PBS.

**Storage Instruction:** Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5788

**Gene Symbol:** PTPRC

**Gene Alias:** B220, CD45, CD45R, GP180, LCA, LY5, T200

**Gene Summary:** The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]

#### References:

1. The demonstration of B-cell, T-cell, and myeloid antigens in paraffin sections. K. P. West, A. C. Campbell, I. Lauder. J. Pathol. 1987 Sep 153(1): 83-84