

TECHNICAL DATA SHEET

PerCP-Cyanine5.5 Anti-Human CD45RA (HI100)

Catalog Number: 65-0458

PRODUCT INFORMATION

Contents: PerCP-Cyanine5.5 Anti-Human CD45RA (HI100)

Isotype: Mouse IgG2b, kappa

Concentration: 5 μ L (0.06 μ g)/test

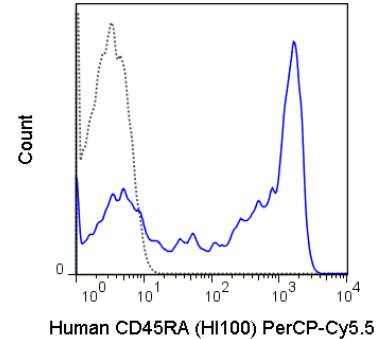
Clone: HI100

Reactivity: Human

Use By: 6 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH_2PO_4 , 150 mM NaCl, 0.09% NaN_3 , 0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with 5 μ L (0.06 μ g) PerCP-Cy5.5 Anti-Human CD45RA (65-0458) (solid line) or 0.06 μ g PerCP-Cy5.5 Mouse IgG2b isotype control (dashed line).

DESCRIPTION

The HI100 antibody reacts with the human CD45 isoform known as CD45RA, 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), CD45RB, CD45RO and others. The HI100 antibody is widely used as a marker for human CD45RA expression on naive and activated T cells, B cells, and monocytes.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye 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 pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 μ L per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 μ L. The number of cells within a sample should be determined empirically, but typically ranges between 1×10^5 to 1×10^8 cells.

REFERENCES

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- Imanguli MM, Swaim WD, League SC, Gress RE, Pavletic SZ, and Hakim FT. 2009. *Blood.* 113: 3620-3630. (Immunohistochemistry - paraffin embedded tissue)
- Kim M-H, Suh H-S, Si Q, Terman BE, and Lee SC. 2006. *J. Virol.* 80: 62-72. (Western Blot)
- Weninger W, Carlsen HS, Goodarzi M, Moazed F, Crowley MA, Baekkevold ES, Cavanagh LL, and von Andrian U. 2003. *J. Immunol.* 170: 4638-4648. (Immunohistochemistry – frozen tissue.)
- Yamada T, Zhu D, Saxon A, and Zhang K. 2002. *J. Biol. Chem.* 277(32): 28830-28835. (in vitro blocking)

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.

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