

TECHNICAL DATA SHEET

Purified Anti-Human CD45RA (HI100)

Catalog Number: 70-0458

PRODUCT INFORMATION

Contents: Purified Anti-Human CD45RA (HI100)

Isotype: Mouse IgG2b, kappa

Concentration: 0.5 mg/mL

Clone: HI100

Reactivity: Human

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C

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

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 naïve and activated T cells, B cells, and monocytes.

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. Tonbo Biosciences tests all of our antibodies by flow cytometry. Citations may be provided as a resource for additional applications that have not been validated by Tonbo Biosciences - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

- Kroenke MA, Eto, D, Locci M, Cho M, Davidson T, Haddad EK, and Crotty S. 2012. J. Immunol. 188: 3734-3744. (Flow Cytometry)
- Lopez-Verges S, Milush JM, Schwartz BS, Pando MJ, Jarjoura J, York VA, Houchins JP, Miller S, Kang S-M, Norris PJ, Nixon DF, and Lanier LL. 2011. Proc. Natl. Acad. Sci. 108: 14725-14732. (Flow Cytometry)
- 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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