

TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse CD45.1 (A20)

Catalog Number: 40-0453

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse CD45.1 (A20)

Isotype: Mouse IgG2a, kappa

Concentration: 2.0 mg/mL

Clone: A20

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, pH 7.2

DESCRIPTION

The A20 antibody reacts with mouse CD45.1, also known as Ly5.1, which is a strain-specific allelic form of the CD45 Leukocyte Common Antigen (LCA). Functionally, CD45 is a protein tyrosine phosphatase whose broad cell distribution supports a critical role in many leukocyte functions, including regulation of signal transduction and cell activation associated with the T cell and B cell receptors. The A20 antibody is typically used as a leukocyte marker in Ly5.1 mouse strains: SJL/J, DA, STS/A and RIII. The antibody has been demonstrated to be specific for CD45.1 and is not cross-reactive with CD45.2 bearing cells.

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

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

Willinger T and Flavell RA. 2012. Proc. Natl. Acad. Sci. 109: 8670-8675. (Flow Cytometry) Sigs OM, Li X, Xia Y, and Beutler B. 2012. J. Exp. Med. 209:19-27. (Flow Cytometry) Wakim LM, Woodward-Davis A and Bevan MJ. 2010. 107: 17872-17879. (Immunohistochemistry – OCT embedded frozen tissue) Ato M, Nakano H, Kakiuchi T, and Kaye PM. 2004. J. Immunol. 173: 4815-4820. (Immunohistochemistry – frozen tissue) Shen F-W, Tung J-S and Boyse EA. 1986. Immunogenetics. 24(3): 146-149. (Immunoprecipitation)

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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