

TECHNICAL DATA SHEET

Purified Anti-Mouse CD45.1 (A20)

Catalog Number: 70-0453

PRODUCT INFORMATION

Contents: Purified Anti-Mouse CD45.1 (A20)

Isotype: Mouse IgG2a, kappa

Concentration: 0.5 mg/mL

Clone: A20

Reactivity: Mouse

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

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

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

Willinger T and Flavell, RA. 2012. Proc. Natl. Acad. Sci. 109: 8670 - 8675. (flow cytometry)Siggs 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)

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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