

TECHNICAL DATA SHEET

violetFluor™ 450 Anti-Mouse CD45.1 (A20)

Catalog Number: 75-0453

PRODUCT INFORMATION

Contents: violetFluor™ 450 Anti-Mouse CD45.1 (A20)

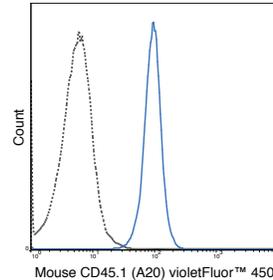
Isotype: Mouse IgG2a, kappa

Concentration: 0.2 mg/mL

Clone: A20

Reactivity: Mouse

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% Na₃N, 0.1% gelatin, pH7.2



SJL splenocytes were stained with 0.5 ug violetFluor™ 450 Anti-Mouse CD45.1 (75-0453) (solid line) or 0.5 ug violetFluor™ 450 Mouse IgG2a isotype control (dashed line).

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 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 quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biosciences Corporation. © 2013 Tonbo Biosciences.