

TECHNICAL DATA SHEET

PE Anti-Mouse CD45.1 (A20)

Catalog Number: 50-0453

PRODUCT INFORMATION

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

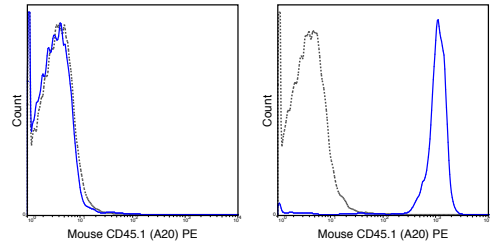
Isotype: Mouse IgG2a, kappa

Concentration: 0.2 mg/mL

Clone: A20

Reactivity: Mouse

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



C57Bl/6 (left panel) or SJL (right panel) splenocytes were stained with 0.5 ug PE Anti-Mouse CD45.1 (50-0453) (solid line) or 0.5 ug PE 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.

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).