

TECHNICAL DATA SHEET

violetFluor™ 450 Anti-Mouse CD45.2 (104)

Catalog Number: 75-0454

PRODUCT INFORMATION

Contents: violetFluor™ 450 Anti-Mouse CD45.2 (104)

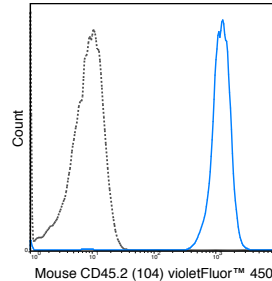
Isotype: Mouse IgG2a, kappa

Concentration: 0.2 mg/mL

Clone: 104

Reactivity: Mouse

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



C57Bl/6 splenocytes were stained with 0.5 ug violetFluor™ 450 Anti-Mouse CD45.2 (75-0454) (solid line) or 0.5 ug violetFluor™ 450 Mouse IgG2a isotype control (dashed line).

DESCRIPTION

The 104 antibody reacts with mouse CD45.2, also known as Ly5.2, 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 104 antibody is typically used as a leukocyte marker in Ly5.2 mouse strains C57BL/6, BALB/c, C58, DBA/1, DBA/2, C3H/He, CBA, 129, A and AKR. The antibody has been demonstrated to be specific for CD45.2 and is not cross-reactive with CD45.1-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)Hale JS, Nelson LT, Simmons KB, and Fink PJ. 2011. J. Immunol. 186: 799 - 806. (flow cytometry)Orr MT, Beilke JN, Proekt I, and Lanier LL. 2010. Proc. Natl. Acad. Sci. 107: 15844 - 15849. (flow cytometry)Banerjee K, Biswas PS, Kumaraguru U, Schoenberger SP, and Rouse BT. 2004. 173: 7575-7583. (immunofluorescence microscopy – frozen tissue)Favre CJ, Mancuso M, Maas K, McLean JW, Baluk P, and McDonald DM. 2003. Am. J. Physiol. Heart Circ. Physiol. 285:H1917-H1938. (immunocytochemistry) 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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