

TECHNICAL DATA SHEET

Purified Anti-Mouse CD45.2 (104)

Catalog Number: 70-0454

PRODUCT INFORMATION

Contents: Purified Anti-Mouse CD45.2 (104)

Isotype: Mouse IgG2a, kappa

Concentration: 0.5 mg/mL

Clone: 104

Reactivity: Mouse

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

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 specific for CD45.2 and is not cross-reactive with CD45.1-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)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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