PE/Cy7 anti-mouse CD45.2

Catalog # / Size: 1149150 / 100 μg

1149145 / 25 μg

Clone: 104

Isotype: Mouse IgG2a, κ

Immunogen: B10.S mouse thymocytes and

splenocytes

Reactivity: Mouse

Preparation: The antibody was purified by affinity

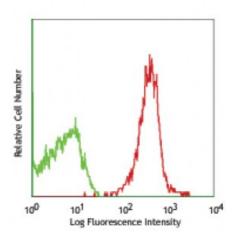
chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7

and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes stained

with 104 PE/Cy7

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of

this reagent is ≤ 0.25 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application

Notes:

The 104 antibody does not react with mouse cells expressing the CD45.1 alloantigen. Additional reported applications (for the relevant formats) include: immunoprecipitation4, *in vivo* and *in vitro* blocking of B cell responses^{1,2}, and immunohistochemical staining of acetone-fixed frozen sections3.

Application References:

1. Yakura H, et al. 1983. J. Exp. Med. 157:1077. (Block)

2. Yakura H, *et al.* 1986. *J. Immunol.* 136:2729. (Block) 3. Suzuki K, *et al.* 2000. *Immunity* 13:691. (IHC)

4. Shen FW, et al. 1986. Immunogenetics 24:146. (IP)

5. Baldwin TA and Hogquist KA. 2007. *J. Immunol.* 179:837.

6. Pascal V, *et al.* 2007. *J. Immunol.* 179:1751.

7. Burman AC, et al. 2007. Blood 110:1064.

8. Kincaid EZ, et al. 2007. J. Immunol. 179:3187.

9. Phan TG, et al. 2007. Nature Immunol. 8:992.

10. Nakano-Yokomizo T, et al. 2011. J. Exp Med. 208:1661. PubMed

11. Wen T, et al. 2013. PNAS. 110:6067. PubMed

12. Kohlmeier JE, et al. 2008. Immunity. 29:101. (FC) PubMed

13. Puleston DJ, et al. 2014. Elife. 3:3706. PubMed

14. van Blijswijk J, et al. 2015. J Immunol. 194:307. PubMed

15. Kim PG, et al. 2015. J Exp Med. 212:633. PubMed

Description: CD45.2 is an alloantigen of CD45, expressed by Ly5.2 bearing mouse strains

(e.g., A, AKR, BALB/c, CBA/Ca, CBA/J, C3H/He, C57BL, C57BR, C57L, C58, DBA/1, DBA/2, NZB, SWR, 129). CD45, a member of the protein tyrosine phosphatase (PTP) family, is a 180-240 kD glycoprotein expressed on all hematopoietic cells except mature erythrocytes and platelets. There are multiple isoforms in the

mouse that play key roles in TCR and BCR signal transduction. These isoforms are very specific to the activation and maturation states of the cell as well as specific cell type. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4, TCR, CD22, and Thy-1.

Antigen References:

1. Suzuki K, et al. 2000. Immunity 13:691.