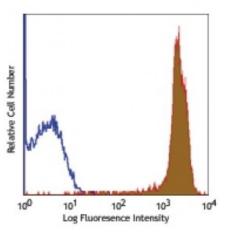
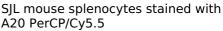
Product Data Sheet

PerCP/Cy5.5 anti-mouse CD45.1

Catalog # / Size:	1153635 / 25 μg 1153640 / 100 μg
Clone:	A20
Isotype:	Mouse IgG2a, к
Immunogen:	SJL mouse thymocytes and splenocytes
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2





Applications:

Applications: Flow Cytometry Each lot of this antibody is guality control tested by immunofluorescent staining Recommended with flow cytometric analysis. For flow cytometric staining, the suggested use of Usage: this reagent is ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm. The A20 antibody does not react with leukocytes or mouse cells expressing the Application CD45.2 alloantigen. Additional reported applications (for relevant formats of this Notes: clone) include: immunoprecipitation3, *in vitro* blocking of B cell responses^{1,2}, immunohistochemical staining of frozen sections: OCT embedded⁷ and acetonefixed⁴⁻⁶ (direct immunofluorescence detection with fluorochrome conjugated A20 was used in (5) and (6)), and immunofluorescence microscopy 9 . Application 1. Yakura H, et al. 1983. J. Exp. Med. 157:1077. (Block) **References:** 2. Yakura H, et al. 1986. J. Immunol. 136:2729. (Block) 3. Shen FW, et al. 1986. Immunogenetics 24:146. (IP) 4. Suzuki K, et al. 2000. Immunity 13:691. (IHC) 5. Werner N, et al. 2002. Arterioscler. Thromb. Vasc. Biol. 22:1567. (IHC) 6. Lessner SM, et al. 2002. Am. J. Pathol. 160:2145. (FC, IHC) 7. Chen CC, et al. 2005. P. Natl. Acad. Sci. USA 102:11408 (IHC) 8. Pascal V, et al. 2007. J. Immunol. 179:1751. (FC) 9. Mende I, et al. 2006. Blood 107:1383. (IF, IHC, FC) 10. Phan TG, et al. 2007. Nature Immunol. 8:992. (FC) 11. Wither DR, et al. 2009. J. Immunol. 183:5079. PubMed 12. Pascal V, et al.2007. J. Immunol. 179:1751. PubMed 13. Lee SW, et al. 2009. J. Immunol. 182:6753. PubMed 14. Takada K, *et al.* 2009. *J. Exp Med.* 206:2253. <u>PubMed</u> 15. Beamer CA, *et al.* 2007. *Am. J. Respir. Cell. Mol. Biol.* 37:729. (FC) <u>PubMed</u> 16. Li LX, et al. 2010. J. Immunol. 184:1728. PubMed

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- 18. Kenna TJ, *et al.* 2008. *Blood* 111:2091. <u>PubMed</u>
- 19. Kohlmeier JE, et al. 2008. Immunity. 29:101. (FC) PubMed
- 20. Xia S, *et al.* 2014. *J Leukoc Biol.* 95:733. <u>PubMed</u>
- 21. Karimi MA, et al. 2015. Blood. 125:3655. PubMed

Description: CD45.1 is an alloantigen of CD45, expressed by Ly5.1 bearing mouse strains (e.g., RIII, SJL/J, STS/A, DA). 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 mice 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 types. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4, TCR, CD22, and Thy-1.

Antigen 1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.

- References: 2. Trowbridge IS, et al. 1993. Annu. Rev. Immunol. 12:85.
 - 3. Kishihara K, et al. 1993. Cell 74:143.

^{4.} Pulido R, <