

PerCP anti-mouse CD45.1

Catalog # / Size: 1153630 / 100 µg
1153625 / 25 µg

Clone: A20

Isotype: Mouse IgG2a, κ

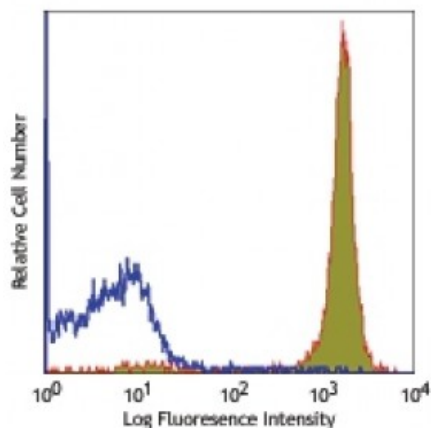
Immunogen: SJL mouse thymocytes and splenocytes

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



SJL mouse splenocytes stained with A20 PerCP

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 ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.

Application Notes: The A20 antibody does not react with leukocytes or mouse cells expressing the CD45.2 alloantigen. Additional reported applications (for relevant formats of this clone) include: immunoprecipitation³, *in vitro* blocking of B cell responses^{1,2}, immunohistochemical staining of frozen sections: OCT embedded⁷ and acetone-fixed⁴⁻⁶ (direct immunofluorescence detection with fluorochrome conjugated A20 was used in (5) and (6)), and immunofluorescence microscopy⁹.

- Application References:**
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 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](#)
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 15. Beamer CA, *et al.* 2007. *Am. J. Respir. Cell. Mol. Biol.* 37:729. (FC) [PubMed](#)
 16. Li LX, *et al.* 2010. *J. Immunol.* 184:1728. [PubMed](#)
 17. Hosoi A, *et al.* 2008. *Cancer Res.* 68:3941. (FC) [PubMed](#)
 18. Kenna TJ, *et al.* 2008. *Blood* 111:2091. [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
References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Trowbridge IS, *et al.* 1993. *Annu. Rev. Immunol.* 12:85.
3. Kishihara K, *et al.* 1993. *Cell* 74:143.
4. Pulido R, <