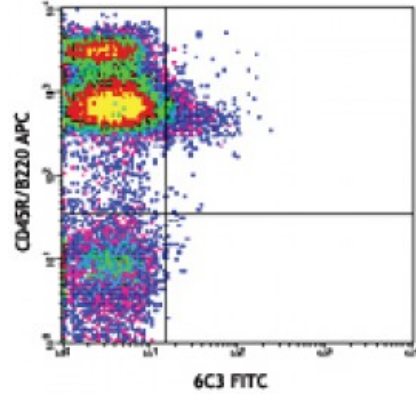


FITC anti-mouse Ly-51

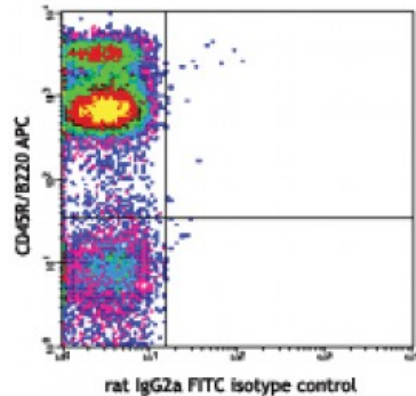
Catalog # / Size: 1141525 / 50 µg
Clone: 6C3
Isotype: Rat IgG2a, κ
Immunogen: C57BL/6 mouse Pre-B lymphoma cell line (L1-2) plus Abelson murine leukemia virus-specific cytotoxic T-cell clones
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



C57BL/6 mouse bone marrow cells were stained with B200 APC and Ly-51 (clone 6C3) FITC (top) or rat IgG2a FITC isotype control (bottom) (gated on lymphoid cell population)

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.
Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation^{1,2} and immunohistochemical staining^{3-5, 7-8} of acetone-fixed frozen sections.



Application References:

1. Pillemer E, *et al.* 1984. *P. Natl. Acad. Sci. USA* 81:4434. (IP)
2. Hardy RR, *et al.* 1991. *J. Exp. Med.* 173:1213. (IP)
3. Adkins B, *et al.* 1988. *Immunogenetics* 27:180. (IHC)
4. Surh CD, *et al.* 1992. *J. Exp. Med.* 176:611. (IHC)
5. Goverman J, *et al.* 1997. *Immunol. Today* 18:204. (IHC)
6. Dumont-Lagace M, 2014. *J. Immunol.* 192:2219. [PubMed](#)
7. Kvell K, *et al.* 2010. *PLoS One* 5:e10701. (FC, IHC)
8. Griewank K, *et al.* 2007. *Immunity* 27:751. (FC, IHC)

Description: Ly-51 is a 140 kD protein also known as 6C3/BP-1. It is a homodimeric cell-surface glycoprotein with aminopeptidase A (APA) activity. Ly-51 is expressed on B cell progenitors, bone marrow stromal cell lines, thymic dendritic cells, and cortical epithelial cells. Ly-51 expression can be upregulated by IL-7 stimulation.

Antigen 1. Goverman J, *et al.* 1997. *Immunol. Today* 18:204.

- References:**
2. Morse HC, *et al.* 1987. *J. Exp. Med.* 165:920.
 3. Sherwood P, *et al.* 1990. *Int. Immunol.* 2:399.
 4. Lin Q, *et al.* 1998.