SONY

# Product Data Sheet

## PE anti-mouse Ly-51

**Catalog # / Size:** 1141540 / 200 µg
1141535 / 50 µg

**Clone:** 6C3

**Isotype:** Rat IgG2a, κ

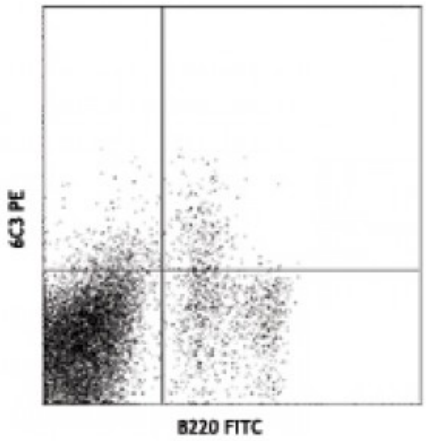
**Immunogen:** C57BL/6 mouse Pre-B lymphoma cell line (L1-2) plus Abelson murine leukemia virus-specific cytotoxic T-cell clones

**Reactivity:** Mouse

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

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

**Concentration:** 0.2




C57BL/6 mouse bone marrow cells stained with 6C3 PE and B220 FITC

## 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:** 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 References:**

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