

**PE/Fire™ 640 anti-mouse CD19**

**Catalog # / Size:** 1177870 / 100 µg  
1177865 / 25 µg

**Clone:** 6D5

**Isotype:** Rat IgG2a, κ

**Immunogen:** Mouse CD19-expressing K562 human erythroleukemia cells

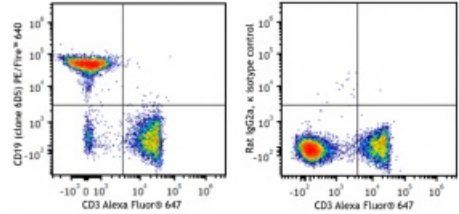
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 640 under optimal conditions.

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

**Workshop Number:** 750 under optimal conditions.

**Concentration:** 0.2 mg/mL

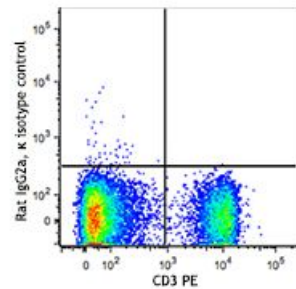


); C57BL/6 mouse splenocytes were stained with anti-mouse CD3 Alexa Fluor® 647 and anti-mouse CD19 PE/Fire™ 640 (clone 6D5) (left) or stained with anti-mouse CD3 Alexa Fluor® 647 only (right).

**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 ≤ 0.125 µg per million cells in 100 µL 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: immunofluorescence<sup>7</sup>.

\* PE/Fire™ 640 has a maximum excitation of 566 nm and a maximum emission of 639 nm.

BALB/c mouse splenocytes were stained with H-2<sup>b</sup> (clone KH95) APC/Fire™ 750 (filled histogram) or mouse IgG2b, κ APC/Fire™ 750 isotype control (open histogram).

**Application  
References:**

1. Shoham T, *et al.* 2003. *J. Immunol.* 171:4062. (FC)
  2. Goodyear CS, *et al.* 2004. *J. Immunol.* 172:2870. (FC)
  3. Kamimura D, *et al.* 2006. *J. Immunol.* 177:306. (FC)
  4. Andoniou CE, *et al.* 2005. *Nat. Immunol.* 6:1011. (FC)
  5. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC)
  6. Phan TG, *et al.* 2007. *Nat. Immunol.* 8:992. (FC)
  7. Hayashida K, *et al.* 2008. *J. Biol. Chem.* 283:19895. (IF) [PubMed](#)
  8. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
  9. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) [PubMed](#)
  10. Stadnisky MD, *et al.* 2011. *Blood.* 117:5133. (FC) [PubMed](#)
  11. Perlot T, *et al.* 2012. *J. Immunol.* 188:1201. (FC) [PubMed](#)
  12. Olive V, *et al.* 2013. *Elife.* 2:822. [PubMed](#)
  13. Miyai T, *et al.* 2014. *PNAS.* 111:11780. [PubMed](#)
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**Description:** CD19 is a 95 kD glycoprotein also known as B4. It is a member of the Ig superfamily, expressed on all pro-B to mature B cells (during development) and follicular dendritic cells. Plasma cells do not express CD19. CD19, in association with CD21 and CD81, forms a molecular complex integral to B cell activation.

- Antigen  
References:**
1. Fearon DT. 1993. *Curr. Opin. Immunol.* 5:341.
  2. Krop I, *et al.* 1996. *Eur. J. Immunol.* 26:238.
  3. Krop I, *et al.* 1996. *J. Immunol.* 157:48.
  4. Tedder TF, *et al.* 1994. *Immunol. Today* 15:437.