SONY

Product Data Sheet

Spark YG™ 581 anti-mouse CD19

Catalog # / Size: 1177880 / 100 µg
1177875 / 25 µg

Clone: 6D5

Isotype: Rat IgG2a, κ

Immunogen: Mouse CD19-expressing K562 human erythroleukemia cells

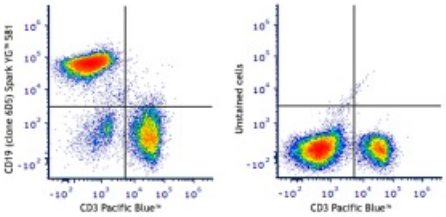
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Spark YG™ 581 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.5



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 Pacific Blue™ and anti-mouse CD19 (clone 6D5) Spark YG™ 581 (left) or stained with CD3 Pacific Blue™ only (right).

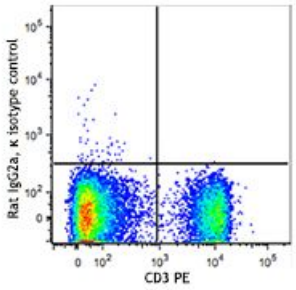
Applications:

Applications: Flow Cytometry, Immunohistochemistry

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 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Spark YG™ 581 has a maximum excitation of 562 nm and a maximum emission of 581 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence[7].



BALB/c mouse splenocytes were stained with H-2^b (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.

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