SONY

Product Data Sheet

PE/Cyanine5 anti-mouse CD19

Catalog # / Size: 1177545 / 25 µg
1177550 / 100 µg

Clone: 6D5

Isotype: Rat IgG2a, κ

Immunogen: Mouse CD19-expressing K562 human erythroleukemia cells

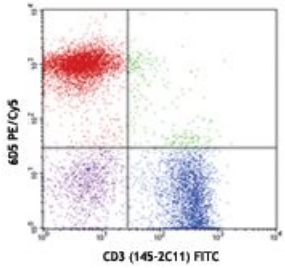
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: 0.2



C57BL/6 splenocytes were stained with CD19 (clone 6D5) PE/Cy5 and CD3 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 µg per 10^6 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[7].

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

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.

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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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