

PE anti-mouse CD19 Antibody

Catalog# / Size	115507 / 50 µg 115508 / 200 µg
Clone	6D5
Other Names	B4
Isotype	Rat IgG2a, κ
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.

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD19-expressing K562 human erythroleukemia cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence ⁷ .
Application References	<ol style="list-style-type: none"> 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

Product Citations

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2. Yamaguchi T, et al. 2010. Genes Dev. 24:455. PubMed
3. Murphy C, et al. 2012. Infect Immun. 80:2712. PubMed
4. Gorina R, et al. 2014. J Immunol. 192:324. PubMed
5. Huang J, et al. 2014. J Immunol. 192:1972. PubMed
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RRID AB_313642 (BioLegend Cat. No. 115507)
 AB_313643 (BioLegend Cat. No. 115508)

Antigen Details

Structure	Ig superfamily, associates with CD21 and CD81, 95 kD
Distribution	Pro-B cells to mature B cells (during development), follicular dendritic cells
Function	Modulates B cell activation and differentiation
Ligand/Receptor	CD21, CD81, Leu-13
Cell Type	B cells, Dendritic cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 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.
Gene ID	12478

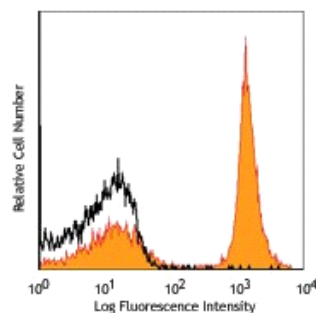
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse CD19, Biotin anti-mouse CD19, FITC anti-mouse CD19, PE/Cyanine5 anti-mouse CD19, Purified anti-mouse CD19, PE/Cyanine7 anti-mouse CD19, Alexa Fluor® 488 anti-mouse CD19, Alexa Fluor® 647 anti-mouse CD19, Pacific Blue™ anti-mouse CD19, Alexa Fluor® 700 anti-mouse CD19, APC/Cyanine7 anti-mouse CD19, PerCP anti-mouse CD19, PerCP/Cyanine5.5 anti-mouse CD19, Alexa Fluor® 594 anti-mouse CD19, Brilliant Violet 421™ anti-mouse CD19, Brilliant Violet 570™ anti-mouse CD19, Brilliant Violet 605™ anti-mouse CD19, Brilliant Violet 650™ anti-mouse CD19, Brilliant Violet 785™ anti-mouse CD19, Brilliant Violet 510™ anti-mouse CD19, Purified anti-mouse CD19 (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD19, Brilliant Violet 711™ anti-mouse CD19, APC/Fire™ 750 anti-mouse CD19, TotalSeq™-A0093 anti-mouse CD19, Brilliant Violet 750™ anti-mouse CD19, TotalSeq™-B0093 anti-mouse CD19, Spark Blue™ 550 anti-mouse CD19, Spark NIR™ 685 anti-mouse CD19, TotalSeq™-C0093 anti-mouse CD19, Ultra-LEAF™ Purified anti-mouse CD19

Product Data



C57BL/6 mouse splenocytes were stained with CD19 (clone 6D5) PE (filled histogram) or rat IgG2a, κ PE isotype control (open histogram).

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