

FITC anti-mouse CD19 Antibody

Catalog# / Size	115505 / 50 µg 115506 / 500 µg
Clone	6D5
Regulatory Status	RUO
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

Verified 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 FITC under optimal conditions.
Concentration	0.5 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 ≤1.0 µg per million 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)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence ⁷ .
Application References	<ol style="list-style-type: none"> Shoham T, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:4062. (FC) Goodyear CS, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:2870. (FC) Kamimura D, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:306. (FC) Andoniou CE, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:1011. (FC) Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366. (FC) Phan TG, <i>et al.</i> 2007. <i>Nat. Immunol.</i> 8:992. (FC) Hayashida K, <i>et al.</i> 2008. <i>J. Biol. Chem.</i> 283:19895. (IF) PubMed Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) PubMed Bankoti J, <i>et al.</i> 2010. <i>Toxicol. Sci.</i> 115:422. (FC) PubMed Stadnisky MD, <i>et al.</i> 2011. <i>Blood.</i> 117:5133. (FC) PubMed Perlot T, <i>et al.</i> 2012. <i>J. Immunol.</i> 188:1201. (FC) PubMed Olive V, <i>et al.</i> 2013. <i>Elife.</i> 2:822. PubMed Miyai T, <i>et al.</i> 2014. <i>PNAS.</i> 111:11780. PubMed
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Product Citations	<ol style="list-style-type: none"> D'Alessandro G, <i>et al.</i> 2020. <i>Eur J Immunol.</i> 50:705. PubMed Tan J, <i>et al.</i> 2021. <i>iScience.</i> 24(8):102835. PubMed Ramakrishna C, <i>et al.</i> 2019. <i>Nat Commun.</i> 10:2153. PubMed

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RRID

AB_313640 (BioLegend Cat. No. 115505)
 AB_313641 (BioLegend Cat. No. 115506)

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. <i>Curr. Opin. Immunol.</i> 5:341. 2. Krop I, et al. 1996. <i>Eur. J. Immunol.</i> 26:238. 3. Krop I, et al. 1996. <i>J. Immunol.</i> 157:48. 4. Tedder TF, et al. 1994. <i>Immunol. Today</i> 15:437.
Gene ID	12478

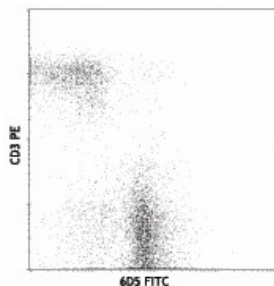
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse CD19, Biotin anti-mouse CD19, FITC anti-mouse CD19, PE 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, PE/Fire™ 640 anti-mouse CD19 Antibody, Spark YG™ 581 anti-mouse CD19, APC/Fire™ 810 anti-mouse CD19, Spark YG™ 570 anti-mouse CD19, Spark Blue™ 574 anti-mouse CD19 Antibody

Product Data



C57BL/6 splenocytes were stained with CD19 (clone 6D5) FITC and CD3 PE.

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