

FITC anti-mouse CD19 Antibody

Catalog# / Size	152403 / 25 µg 152404 / 100 µg
Clone	1D3/CD19
Regulatory Status	RUO
Other Names	B4, CVID3
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	Transfected k562 cells expressing the extracellular domain of murine CD19.
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 ≤0.125 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: blocking ^{1,2} and immunoprecipitation ¹ .
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Krop I, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:238. (FC, Blocking, IP) 2. Abraham P, <i>et al.</i> 2014. <i>Clin. Exp. Immunol.</i> 175:181. (Blocking)
Product Citations	<ol style="list-style-type: none"> 1. Chei S, <i>et al.</i> 2020. <i>Front Nutr.</i> 7:583186. PubMed 2. Hu HJ, <i>et al.</i> 2020. <i>Cell Death Dis.</i> 1.168055556. PubMed 3. Gomzikova MO, <i>et al.</i> 2020. <i>Pharmaceutics.</i> 12:00. PubMed 4. Miller CM, <i>et al.</i> 2020. <i>J Virol.</i> 94:00:00. PubMed 5. Jassinskaja M, <i>et al.</i> 2021. <i>Cell Reports.</i> 34(12):108894. PubMed 6. Zhao J, <i>et al.</i> 2019. <i>Nat Commun.</i> 10:899. PubMed 7. Tavazoie MF, <i>et al.</i> 2018. <i>Cell.</i> 172:825. PubMed 8. Subramanian K, <i>et al.</i> 2019. <i>Nat Microbiol.</i> 4:62. PubMed 9. Dey A <i>et al.</i> 2019. <i>The EMBO journal.</i> 38(7) pii: e100293. PubMed 10. Whiteley AM <i>et al.</i> 2017. <i>eLife.</i> 6 pii: e26435. PubMed 11. Tanegashima K <i>et al.</i> 2017. <i>EBioMedicine.</i> 24:247-256. PubMed 12. Davis FM, <i>et al.</i> 2019. <i>Arterioscler Thromb Vasc Biol.</i> 39:2353. PubMed

13. Deng M, *et al.* 2020. *Nat Commun.* 11:2193. [PubMed](#)
14. Silva HM, *et al.* 2019. *J Exp Med.* 216:786. [PubMed](#)
15. Zhou G, *et al.* 2019. *FASEB J.* 33:11396. [PubMed](#)

RRID AB_2629812 (BioLegend Cat. No. 152403)
AB_2629813 (BioLegend Cat. No. 152404)

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	1. Fearon DT. 1993. <i>Curr. Opin. Immunol.</i> 5:341. 2. Krop I, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:238. 3. Krop I, <i>et al.</i> 1996. <i>J. Immunol.</i> 157:48. 4. Tedder TF, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:437.
Gene ID	12478

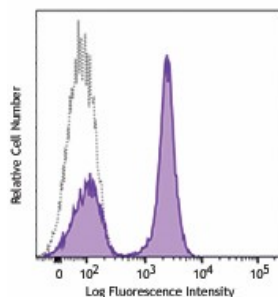
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD19, FITC anti-mouse CD19, PerCP/Cyanine5.5 anti-mouse CD19, PE anti-mouse CD19, APC anti-mouse CD19, APC/Cyanine7 anti-mouse CD19, Alexa Fluor® 700 anti-mouse CD19

Product Data



C57BL/6 mouse splenocytes were stained with CD19 FITC (clone 1D3/CD19, filled histogram) or rat IgG2a, κ FITC isotype control (open histogram).

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