

Alexa Fluor[®] 700 anti-mouse CD19 Antibody

Catalog# / Size	152413 / 25 µg 152414 / 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 Alexa Fluor [®] 700 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	<p>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.</p> <p>* Alexa Fluor[®] 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor[®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: blocking ^{1,2} and immunoprecipitation ¹ .
Application References	<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)
(PubMed link indicates BioLegend citation)	
RRID	AB_2922474 (BioLegend Cat. No. 152413) AB_2922474 (BioLegend Cat. No. 152414)

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

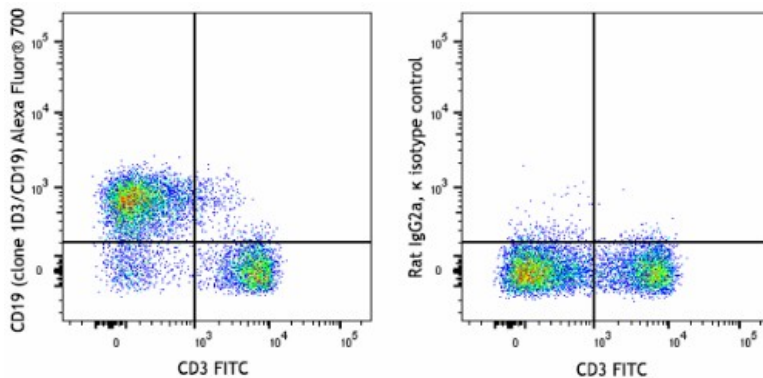
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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, Pacific Blue™ anti-mouse CD19, PE/Cyanine7 anti-mouse CD19

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 FITC and anti-mouse CD19 (clone 1D3/CD19) Alexa Fluor® 700 (left) or rat IgG2a, κ Alexa Fluor® 700 isotype control (right).

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