

## Purified anti-mouse CD19 Antibody

<b>Catalog# / Size</b>	152402 / 500 µg
<b>Clone</b>	1D3/CD19
<b>Other Names</b>	B4, CVID3
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Transfected k562 cells expressing the extracellular domain of murine CD19.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	FC - Quality tested Block, IP - Reported in the literature
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: blocking <sup>1,2</sup> and immunoprecipitation <sup>1</sup> .
<b>Application References</b>	1. Krop I, et al. 1996. Eur. J. Immunol. 26:238. (FC, Blocking, IP) 2. Abraham P, et al. 2014. Clin. Exp. Immunol. 175:181. (Blocking)

(PubMed link indicates BioLegend citation)

#### Product Citations

1. Ye Y, et al. 2017. Sci Immunol. 2:17. PubMed
2. Shimokawa C et al. 2017. Immunity. 46(5):863-874 . PubMed
3. Duncan CG, et al. 2018. G3 (Bethesda). 0.892361111. PubMed
4. Cao Q, et al. 2018. Am J Physiol Renal Physiol. 314:F561. PubMed
5. Burrello C, et al. 2018. Front Med (Lausanne). 5:21. PubMed
3. Diao J, et al. 2018. J Immunol. 201:1306. PubMed
7. Rosenbaum M, et al. 2019. Nat Commun. 2.05. PubMed

RRID

AB\_2629714 (BioLegend Cat. No. 152402)

### Antigen Details

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<b>Structure</b>	Ig superfamily, associates with CD21 and CD81, 95 kD.
<b>Distribution</b>	Pro-B cells to mature B cells (during development), follicular dendritic cells.
<b>Function</b>	Modulates B cell activation and differentiation.
<b>Ligand/Receptor</b>	CD21, CD81, Leu-13.

<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Immunology, Costimulatory Molecules
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	12478

## Related Protocols

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Cell Surface Flow Cytometry Staining Protocol

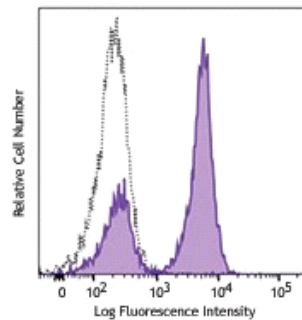
## Other Formats

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FITC anti-mouse CD19, PerCP/Cyanine5.5 anti-mouse CD19, PE anti-mouse CD19, APC anti-mouse CD19

## Product Data

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C57BL/6 mouse splenocytes were stained with purified CD19 (clone 1D3/CD19, filled histogram) or rat IgG2a,  $\kappa$  isotype control (open histogram), followed by anti-rat IgG FITC.

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