

## Purified anti-human CD19 Antibody

<b>Catalog# / Size</b>	396302 / 100 µg
<b>Clone</b>	A17136C
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	B4, CVID3
<b>Isotype</b>	Mouse IgG2b, κ
<b>Description</b>	CD19 is a 95 kD type I transmembrane glycoprotein also known as B4. It is a member of the immunoglobulin superfamily expressed on B-cells (from pro-B to blastoid B cells, absent on plasma cells) and follicular dendritic cells. CD19 is involved in B cell development, activation, and differentiation. CD19 forms a complex with CD21 (CR2) and CD81 (TAPA-1), and functions as a BCR co-receptor.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human 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>	<a href="#">IHC-P - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10.0 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
<b>RRID</b>	AB_2894554 (BioLegend Cat. No. 396302)

### Antigen Details

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<b>Structure</b>	Ig superfamily, type I transmembrane glycoprotein, 95 kD
<b>Distribution</b>	Normal and malignant B lymphocytes
<b>Function</b>	B cell activation and differentiation
<b>Interaction</b>	Forms a complex with CD21, CD81 and CD225 in the membrane of mature B cells and interacts with VAV and LYN. It also interacts with GRAB2 and SOS when phosphorylated on Tyr-348 and/or Tyr-378 and with PLCG2 when phosphorylated on Tyr-409.
<b>Ligand/Receptor</b>	Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR coreceptor
<b>Cell Type</b>	B cells, Lymphocytes
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules

## Antigen References

1. Tedder T, *et al.* 1994. *Immunol Today*. 15:437.
2. Bradbury L, *et al.* 1993. *J Immunol*. 151:2915.

## Gene ID

[930](#)

## Related Protocols

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[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

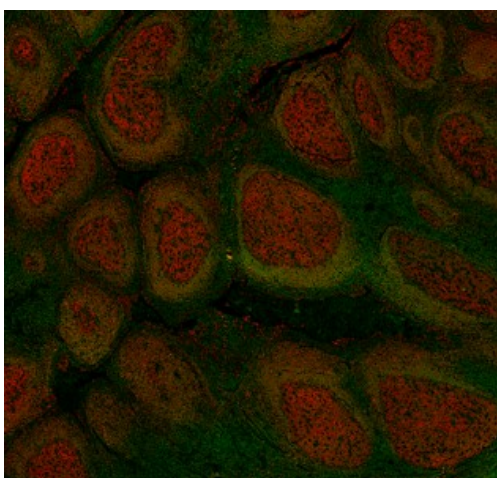
## Other Formats

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Alexa Fluor® 647 anti-human CD19, Alexa Fluor® 594 anti-human CD19, Purified anti-human CD19

## Product Data

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Human paraffin-embedded tonsil tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Sodium Citrate H.I.E.R. 1X at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL of purified anti-human CD19 (clone A17136C) at 4°C overnight, followed by 2.5 µg/mL of anti-mouse IgG (Poly4053) Alexa Fluor® 594 (red) for two hours at room temperature. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

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