

Purified anti-human CD19 Antibody

Catalog# / Size	396302 / 100 µg
Clone	A17136C
Regulatory Status	RUO
Other Names	B4, CVID3
Isotype	Mouse IgG2b, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human CD19
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	IHC-P - Quality tested
Recommended Usage	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.
RRID	AB_2894554 (BioLegend Cat. No. 396302)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 95 kD
Distribution	Normal and malignant B lymphocytes
Function	B cell activation and differentiation
Interaction	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.
Ligand/Receptor	Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR coreceptor
Cell Type	B cells, Lymphocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	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](#)

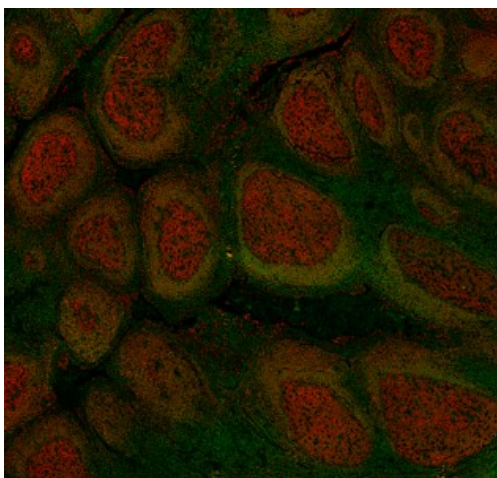
Related Protocols

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

Other Formats

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

Product Data



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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