

**Anti-CD19 Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AP53447****Specification**

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**Anti-CD19 Antibody - Product Information**

Application	<b>WB, FC</b>
Primary Accession	<a href="#">P15391</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Purification	<b>Affinity purified</b>

**Anti-CD19 Antibody - Additional Information****Gene ID** 930**Other Names**

Antibody deficiency due to defect in CD19; AW495831; B lymphocyte antigen CD19; B lymphocyte surface antigen B4; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; B4; CD19; CD19 antigen; CD19 molecule; Cd19 protein; CD19\_HUMAN; CVID3; Differentiation antigen CD19; Leu 12; Leu-12; Leu12; MGC109570; MGC12802; T-cell surface antigen Leu-1.

**Format**

Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-CD19 Antibody - Protein Information****Name** CD19**Function**

Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes (PubMed: [29523808](http://www.uniprot.org/citations/29523808)). Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed: [1373518](http://www.uniprot.org/citations/1373518), PubMed: [16672701](http://www.uniprot.org/citations/16672701), PubMed: [2463100](http://www.uniprot.org/citations/2463100)). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed: [12387743](http://www.uniprot.org/citations/12387743), PubMed: [16672701](http://www.uniprot.org/citations/16672701), PubMed: [9317126](http://www.uniprot.org/citations/9317126), PubMed: [9382888](http://www.uniprot.org/citations/9382888)). Is not required

for early steps during B cell differentiation in the blood marrow (PubMed:<a href="http://www.uniprot.org/citations/9317126" target="\_blank">9317126</a>). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:<a href="http://www.uniprot.org/citations/1373518" target="\_blank">1373518</a>, PubMed:<a href="http://www.uniprot.org/citations/2463100" target="\_blank">2463100</a>). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:<a href="http://www.uniprot.org/citations/12387743" target="\_blank">12387743</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">16672701</a>, PubMed:<a href="http://www.uniprot.org/citations/9317126" target="\_blank">9317126</a>).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft  
{ECO:0000250|UniProtKB:P25918}; Single-pass type I membrane protein  
{ECO:0000250|UniProtKB:P25918}

#### Tissue Location

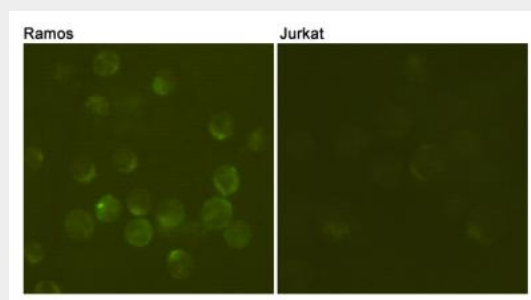
Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100).  
Detected on blood B cells (at protein level) (PubMed:16672701, PubMed:2463100)

### Anti-CD19 Antibody - Protocols

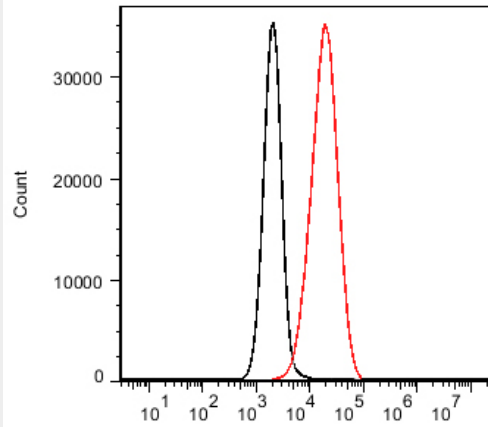
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-CD19 Antibody - Images



Confocal immunofluorescent analysis of Ramos (positive cell, left) and Jurkat (negative cell, right) using anti-CD19 mouse mAb (dilution 1:100).



Flow cytometric analysis of Jurkat T cells (black) and Ramos B cells (red), using anti-CD19 mouse mAb.

### **Anti-CD19 Antibody - Background**

Assembles with the antigen receptor of B-lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.