

# CD19 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP1494b

## **Specification**

# CD19 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

P15391

# CD19 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 930

#### **Other Names**

B-lymphocyte antigen CD19, B-lymphocyte surface antigen B4, Differentiation antigen CD19, T-cell surface antigen Leu-12, CD19, CD19

# Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP1494b>AP1494b</a> was selected from the C-term region of human CD19. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

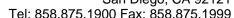
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### CD19 Antibody (C-term) Blocking Peptide - Protein Information

### Name CD19

### **Function**

Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:<a href="http://www.uniprot.org/citations/2463100" target="\_blank">2463100"/a>, PubMed:<a href="http://www.uniprot.org/citations/1373518" target="\_blank">1373518</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">16672701</a>, Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:<a href="http://www.uniprot.org/citations/9382888" target="\_blank">9382888</a>, PubMed:<a href="http://www.uniprot.org/citations/9317126" target="\_blank">9317126</a>, PubMed:<a href="http://www.uniprot.org/citations/12387743" target="\_blank">12387743</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">12387743</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">16672701</a>, 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/2463100" target=" blank">2463100</a>, PubMed:<a href="http://www.uniprot.org/citations/1373518" target="blank">1373518</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/9317126" target=" blank">9317126</a>, 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>).

#### **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:2463100, PubMed:16672701)

## CD19 Antibody (C-term) Blocking Peptide - Protocols

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

### • Blocking Peptides

CD19 Antibody (C-term) Blocking Peptide - Images

# CD19 Antibody (C-term) Blocking Peptide - Background

Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. CD19 is a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

## CD19 Antibody (C-term) Blocking Peptide - References

Deaglio, S., Blood 109 (12), 5390-5398 (2007) Bradbury, L.E., J. Immunol. 149 (9), 2841-2850 (1992)Kozmik, Z., Mol. Cell. Biol. 12 (6), 2662-2672 (1992)