

**CD19 Antibody**  
**Rabbit mAb**  
**Catalog # AP91098**

## Specification

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### CD19 Antibody - Product Information

Application	<b>WB, IHC, FC, ICC</b>
Primary Accession	<a href="#">P15391</a>
Clonality	<b>Monoclonal</b>
<b>Other Names</b>	
B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4;	
Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>61128 Da</b>

### CD19 Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human CD19</b>
Description	<b>CD19 is a transmembrane glycoprotein that contains two extracellular immunoglobulin-like domains. Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>
Storage Condition and Buffer	

### 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:[9317126](http://www.uniprot.org/citations/9317126), PubMed:[9317126](http://www.uniprot.org/citations/9317126)).

[9382888](http://www.uniprot.org/citations/9382888)). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:[9317126](http://www.uniprot.org/citations/9317126)). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:[1373518](http://www.uniprot.org/citations/1373518), PubMed:[2463100](http://www.uniprot.org/citations/2463100)). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:[12387743](http://www.uniprot.org/citations/12387743), PubMed:[16672701](http://www.uniprot.org/citations/16672701), PubMed:[9317126](http://www.uniprot.org/citations/9317126)).

#### 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

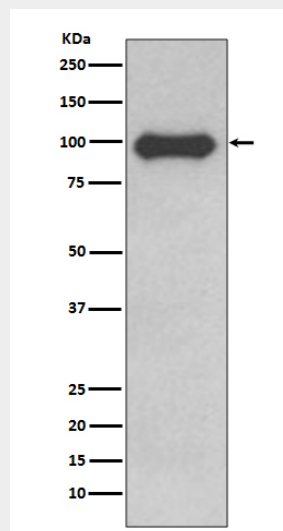
Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100).  
Detected on blood B cells (at protein level) (PubMed:16672701, PubMed:2463100)

### 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](#)

### CD19 Antibody - Images



Western blot analysis of CD19 expression in Ramos cell lysate.