

**CD19 (aa422-433) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3982a

### Specification

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#### CD19 (aa422-433) Antibody (internal region) - Product Information

Application	WB
Primary Accession	<a href="#">P15391</a>
Other Accession	<a href="#">NP_001171569.1</a> , <a href="#">NP_001761.3</a> , <a href="#">930</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	61128

#### CD19 (aa422-433) Antibody (internal region) - 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

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

CD19 (aa422-433) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### CD19 (aa422-433) Antibody (internal region) - 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:<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>, PubMed:<a href="http://www.uniprot.org/citations/9382888" target="\_blank">9382888</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/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

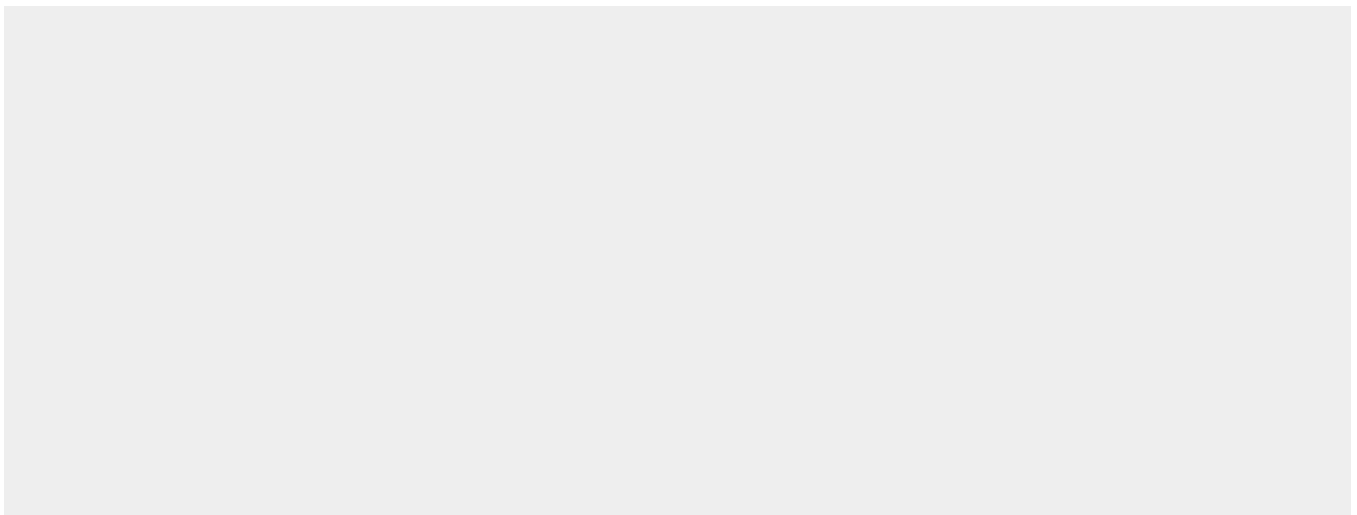
Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100).  
Detected on blood B cells (at protein level) (PubMed:16672701, PubMed:2463100)

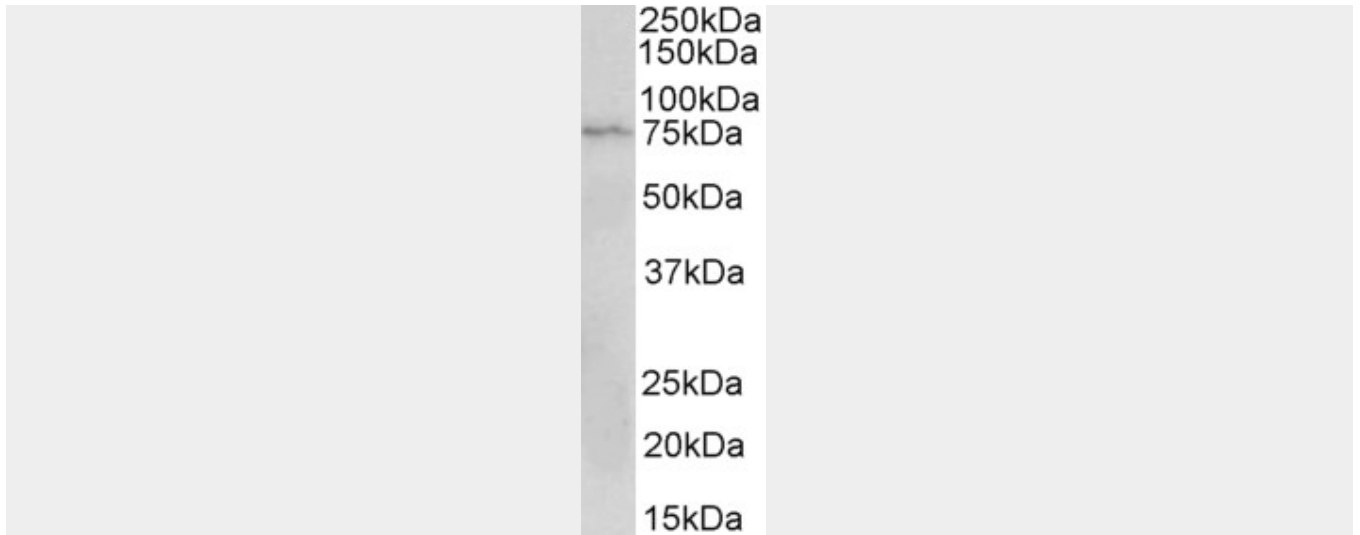
### CD19 (aa422-433) Antibody (internal region) - Protocols

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 (aa422-433) Antibody (internal region) - Images





AF3982a (2 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **CD19 (aa422-433) Antibody (internal region) - Background**

This antibody is expected to recognize both reported isoforms (NP\_001171569.1; NP\_001761.3).

#### **CD19 (aa422-433) Antibody (internal region) - References**

Agammaglobulinemia associated with BCR? B cells and enhanced expression of CD19. Dobbs AK, Bosompem A, Coustan-Smith E, Tyerman G, Saulsbury FT, Conley ME. Blood. 2011 Aug 18;118(7):1828-37. PMID: 21693761