

CD19 Antibody
Rabbit mAb
Catalog # AP91090

Specification

CD19 Antibody - Product Information

| | |
|---|------------------------|
| Application | WB, FC |
| Primary Accession | P15391 |
| Reactivity | Rat |
| Clonality | Monoclonal |
| Other Names | |
| B-lymphocyte antigen CD19; T-cell surface antigen Leu-12; | |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 61128 Da |

CD19 Antibody - Additional Information

| | |
|------------------------------|--|
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human CD19 |
| Description | 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. |
| 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: [16672701](http://www.uniprot.org/citations/16672701), PubMed: [16672701](http://www.uniprot.org/citations/16672701)).

[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: [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

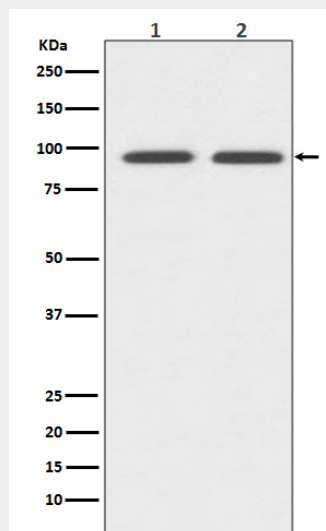
Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100).
Detected on blood B cells (at protein level) (PubMed:16672701, PubMed:2463100)

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 (1) Jurkat cell lysate; (2) Rat spleen lysate.