

### **Anti-CD19 Picoband Antibody**

Catalog # ABO12486

### **Specification**

# **Anti-CD19 Picoband Antibody - Product Information**

Application WB, IHC-P
Primary Accession P15391
Host Reactivity Human
Clonality Polyclonal
Format Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for B-lymphocyte antigen CD19(CD19) detection. Tested with WB, IHC-P in Human.

### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## **Anti-CD19 Picoband Antibody - 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

## Calculated MW 61128 MW KDa

# **Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, By Heat<br/>br>Western blot, 0.1-0.5 μg/ml, Human<br/>br>

# **Subcellular Localization**

Membrane; Single-pass type I membrane protein.

#### **Protein Name**

B-lymphocyte antigen CD19

#### **Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

#### **Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human CD19 (307-337aa LVGILHLQRALVLRRKRKRMTDPTRRFFKVT), different from the related mouse sequence by seven amino acids.

#### **Purification**

Immunogen affinity purified.



## **Cross Reactivity**

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### **Anti-CD19 Picoband Antibody - Protein Information**

#### Name CD19

### **Function**

Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes (PubMed:<a href="http://www.uniprot.org/citations/29523808" target=" blank">29523808</a>). 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/1373518" target=" blank">1373518</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="blank">16672701</a>, PubMed:<a href="http://www.uniprot.org/citations/2463100" target="blank">2463100</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/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)

## **Anti-CD19 Picoband Antibody - Protocols**

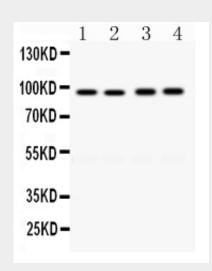
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

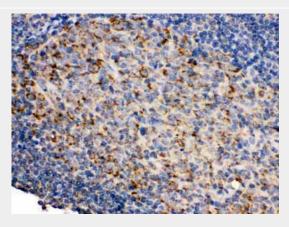


- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### Anti-CD19 Picoband Antibody - Images



Anti-CD19 Picoband antibody, ABO12486, Western blottingAll lanes: Anti CD19 (ABO12486) at 0.5ug/mlLane 1: RAJI Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4: SW620 Whole Cell Lysate at 40ugPredicted bind size: 90KDObserved bind size: 90KD



Anti-CD19 Picoband antibody, ABO12486, IHC(P)IHC(P): Human Tonsil Tissue

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

B-lymphocyte antigen CD19, also known as CD19 (Cluster of Differentiation 19), is a protein that in humans is encoded by the CD19 gene. It is found on the surface of B-cells, a type of white blood cell. 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. The CD19 gene encodes a cell surface molecule that assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.