# CD19 Rabbit mAb

Catalog No.: A19013 Recombinant 7 Publications



## **Basic Information**

### **Observed MW**

95kDa

#### **Calculated MW**

61kDa

### Category

Primary antibody

### **Applications**

WB,IF-P,IHC-P,ELISA

### **Cross-Reactivity**

Human, Cynomolgus monkey

#### CloneNo number

ARC0418

## **Background**

This gene encodes a member of the immunoglobulin gene superfamily. Expression of this cell surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two N-terminal extracellular Ig-like domains separated by a non-Ig-like domain, a hydrophobic transmembrane domain, and a large Cterminal cytoplasmic domain. This protein forms a complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the threshold for antigen-initiated B cell activation. Activation of this B-cell antigen receptor complex activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphoblastic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3 (CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

## **Recommended Dilutions**

**WB** 1:1000 - 1:2000

IF-P 1:200 - 1:800

IHC-P 1:200 - 1:800

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

## Immunogen Information

Gene ID Swiss Prot 930 P15391

### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

### **Synonyms**

B4; CVID3; CD19

## **Contact**

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$\bowtie$		cn.market@abclonal.com.cn
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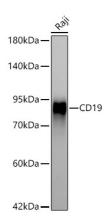
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

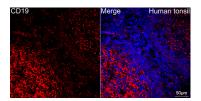


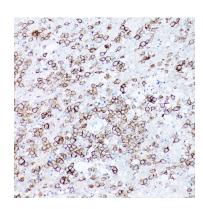
Western blot analysis of lysates from Raji cells using CD19 Rabbit mAb (A19013) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit lgG (H+L) (AS014) at 1:10000 dilution.

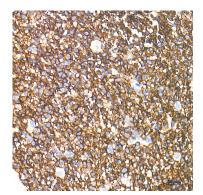
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021).

Exposure time: 3min.



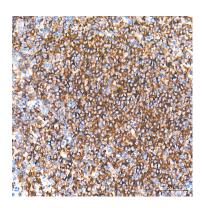




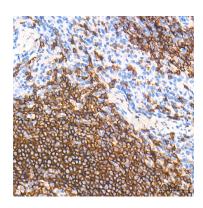
Confocal imaging of paraffin-embedded Human tonsil tissue using CD19 Rabbit mAb (A19013, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

Immunohistochemistry analysis of paraffinembedded Human B-cell lymphoma[200X[] using CD19 Rabbit mAb (A19013) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffinembedded Human tonsil tissue using CD19 Rabbit mAb (A19013) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human splee tissue using CD19 Rabbit mAb (A19013) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Cynomolgus monkey spleen tissue using CD19 Rabbit mAb (A19013) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.