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## ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb

Catalog No.: A23009

#### **Basic Information**

#### Observed MW

Refer to figures

#### **Calculated MW**

63kDa

#### Category

Primary antibody

#### **Applications**

#### **Cross-Reactivity**

Human, Cynomolgus

#### CloneNo number

ARC57915

#### Coniugate

ABflo® 647. Ex:648nm. Em:664nm.

## **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**

FC

5 µl per 10^6 cells in 100 µl volume

## **Immunogen Information**

**Gene ID** 

**Swiss Prot** 102145514

#### **Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### **Synonyms**

#### Contact

| <u>a</u>  | 400-999-6126              |
|-----------|---------------------------|
| $\bowtie$ | cn.market@abclonal.com.cn |
| <u></u>   | www.abclonal.com.cn       |

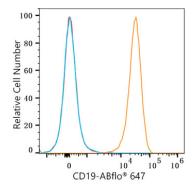
#### **Product Information**

| Source | Isotype | Purification          |
|--------|---------|-----------------------|
| Rabbit | IgG     | Affinity purification |

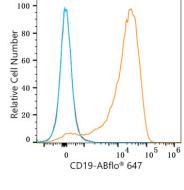
#### Storage

Store at 2-8°C. Avoid freeze.

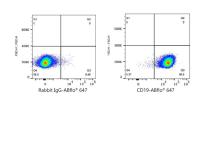
Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



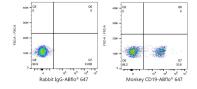
Flow cytometry: 1X10^6 Raji cells were surface-stained with ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb(A23009,5 µl/Test,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line).Non-fluorescently stained Raji cells was used as blank control (red line).

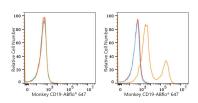


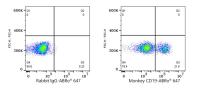
Flow cytometry: 1X10^6 Daudi cells were surface-stained with ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb(A23009,5  $\mu$ l/Test,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5  $\mu$ l/Test,blue line).Non-fluorescently stained Daudi cells was used as blank control (red line).



Flow cytometry:1X10^6 Raji cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb(A23009,5 µl/Test,right).



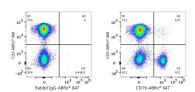




Flow cytometry:1X10^6 Cynomolgus PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb(A23009,5 µl/Test,right).

Flow cytometry:1X10^6 293F cells (negative control,Left) and 293F (Transfection,right) cells were surface-stained with ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009,5 µl/Test,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line). Non-fluorescently stained cells was used as blank control (red line).

Flow cytometry:1X10^6 293F (Transfection) cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5  $\mu$ I/Test,left) or ABflo® 647 RRabbit anti-Human/Monkey CD19 mAb (A23009,5  $\mu$ I/Test,right).



Flow cytometry:1X10^6 Human PBMC were surface-stained with ABflo® 488 Rabbit anti-Human/Monkey CD3 (A26283,5 µl/Test) and ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb(A23009,5 µl/Test,right).Cells in the lymphocyte gate were used for analysis.