

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

FC

Cross-Reactivity

Human, Monkey

CloneNo number

ARC57915-ABf647

Conjugate

ABflo® 647, Ex:648nm, Em:664nm.


Recommended Dilutions

FC 5 µl per 10⁶ cells in
 100 µl volume

Contact

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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 C-terminal 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.

Immunogen Information

Gene ID

102145514

Swiss Prot

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 20-292 of monkey CD19.

Synonyms

Product Information

Source

Rabbit

Isotype

IgG

Purification

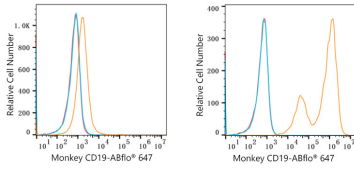
Affinity purification

Storage

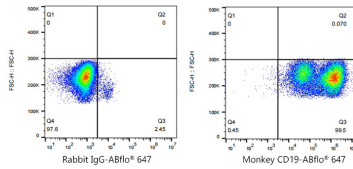
Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.03% proclin300,0.2% BSA,pH7.3.

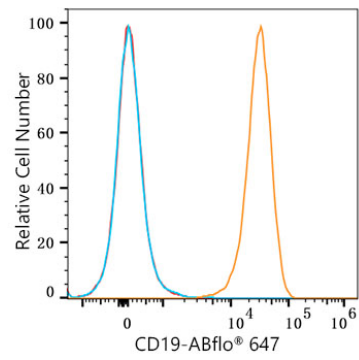
Validation Data



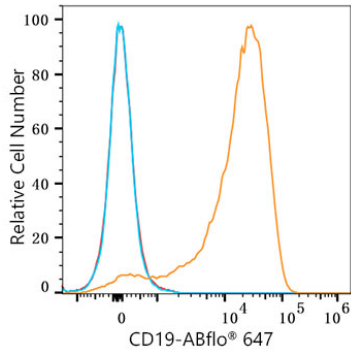
Flow cytometry: 1×10^6 293F cells (negative control, Left) and 293F (Transfection, right) cells were surface-stained with ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).



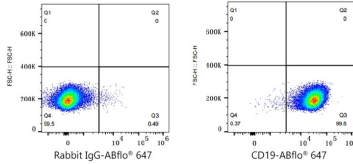
Flow cytometry: 1×10^6 293F (Transfection) cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, left) or ABflo® 647 RRabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, right).



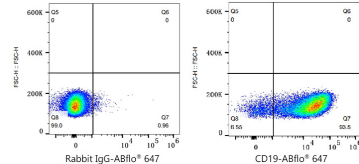
Flow cytometry: 1×10^6 Raji cells were surface-stained with ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, blue line). Non-fluorescently stained Raji cells were used as blank control (red line).



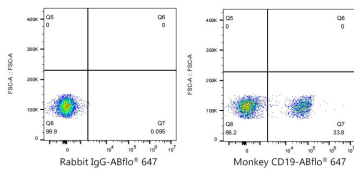
Flow cytometry: 1×10^6 Daudi cells were surface-stained with ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, blue line). Non-fluorescently stained Daudi cells were used as blank control (red line).



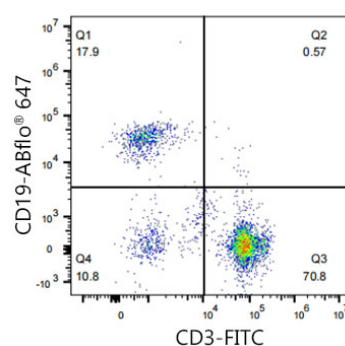
Flow cytometry: 1×10^6 Raji cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, left) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, right).



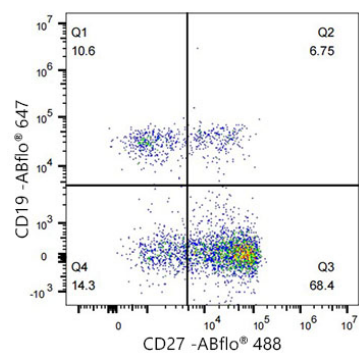
Flow cytometry: 1×10^6 Daudi cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, left) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, right).



Flow cytometry: 1×10^6 Monkey PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22069, 5 μ l/Test, left) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test, right).

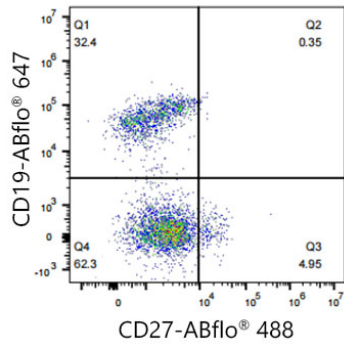


Flow cytometry: 1×10^6 Human PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test). The cells were simultaneously stained with FITC Mouse anti-Human CD3 Antibody.



Flow cytometry: 1×10^6 Human PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test). The cells were simultaneously stained with ABflo® 488 Rabbit anti-Human CD27 mAb [A22063] 5 μ l/Test.

Validation Data



Flow cytometry: 1×10^6 Monkey PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test) or ABflo® 647 Rabbit anti-Human/Monkey CD19 mAb (A23009, 5 μ l/Test). The cells were simultaneously stained with ABflo® 488 Rabbit anti-Human CD27 mAb [A22063] 5 μ l/Test.