

# APC/Cyanine7 Mouse anti-Human CD19 mAb

Catalog No.: A22821

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

61kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Human

### CloneNo number

AMC0541

### Conjugate

APC-Cy7. Ex:651nm. Em:779nm.

## Recommended Dilutions

FC 10  $\mu$ L/Test

## 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

930

### Swiss Prot

P15391

### Immunogen

Recombinant protein of human CD19.

### Synonyms

B4; CVID3

## Contact

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## Product Information

### Source

Mouse

### Isotype

IgG1

### Purification

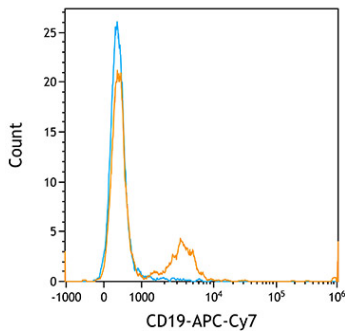
Affinity purification

### Storage

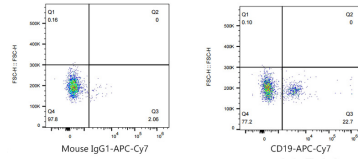
Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.1% Proclin300,0.2% BSA,pH7.2.

## Validation Data



Flow cytometry:  $1 \times 10^6$  Human PBMC were surface-stained with APC-Cy7 Mouse anti-Human CD19 mAb (A22821, orange line) or isotype control mAb (blue line).



Flow cytometry:  $1 \times 10^6$  Human PBMC were surface-stained with Isotype control mAb (left) or APC-Cy7 Mouse anti-Human CD19 mAb (A22821, right).