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# 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.

## 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.

## Recommended Dilutions

| | |
|---|---|
| **FC** | 10 µL/Test |

## Immunogen Information

**Gene ID**
930

**Swiss Prot**
P15391

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

**Synonyms**
B4; CVID3

## Contact


400-999-6126

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## Product Information

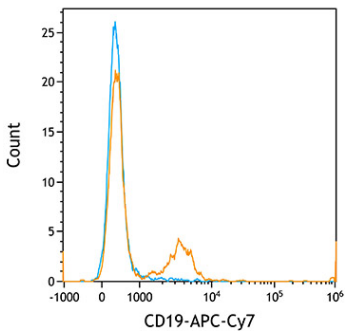
**Source**
Mouse

**Isotype**
IgG1

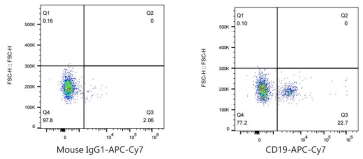
**Purification**
Affinity purification

**Storage**
Store at -20℃

## Validation Data




Flow cytometry:1X10^6 Human PBMC were surface-stained with APC-Cy7 Mouse anti-Human CD19 mAb (A22821, orange line) or isotype control mAb (blue line).




Flow cytometry:1X10^6 Human PBMC were surface-stained with Isotype control mAb (left) or APC-Cy7 Mouse anti-Human CD19 mAb (A22821, right).