**Human CD19 Antibody**  
Monoclonal Mouse IgG₁ Clone # 4G7-2E3  
Catalog Number: MAB4867

### DESCRIPTION

**Species Reactivity**  
Human

**Specificity**  
Detects human CD19.

**Source**  
Monoclonal Mouse IgG₁, Clone # 4G7-2E3

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
Human CLL cells

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
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<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tr>
<td>Flow Cytometry</td>
<td>0.25 μg/10⁶ cells</td>
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| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

### DATA

**Flow Cytometry**  
Detection of CD19 in Human PBMCs by Flow Cytometry.  
Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human CD3ε PE-conjugated Monoclonal Antibody (Catalog # FAB100P) and either (A) Mouse Anti-Human CD19 Monoclonal Antibody (Catalog # MAB4867) or (B) Mouse IgG₁ Isotype Control (Catalog # MAB002) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).

### PREPARATION AND STORAGE

**Reconstitution**  
Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

CD19 is a 95 kDa transmembrane glycoprotein with two Ig-like C2-set domains. CD19 regulates B cell development and activation through interactions with CD21, CD22, and the B cell receptor. CD19 polymorphisms and up-regulation lead to the development of autoimmunity by promoting autoantibody production. Within the extracellular domain, human CD19 (Accession # P15391) shares 57% amino acid sequence identity with mouse and rat CD19.