### Antibodies

**Anti-Mouse CD19 Antibody, Clone 6D5, PE**

Rat monoclonal IgG2a antibody against mouse CD19, PE-conjugated

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Quantity (μg)</th>
<th>Concentration (mg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>#60006PE</td>
<td>200</td>
<td>0.2</td>
</tr>
<tr>
<td>#60006PE.1</td>
<td>50</td>
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</tr>
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</table>

### Product Description

The 6D5 antibody reacts with CD19, an ~95 kDa type 1 transmembrane glycoprotein expressed on the surface of B cells throughout all stages of development, from early pre-B cells to plasma cells. Expression is down-regulated but persists in terminally differentiated plasma cells. CD19 is also found on follicular dendritic cells. By associating with CD21 and CD81, CD19 functions as a co-receptor for the B cell receptor and is involved in B cell activation and differentiation. Activation of CD19 is accompanied by phosphorylation of the cytoplasmic domain, which promotes binding to kinases and the induction of intracellular signaling cascades. Mutations in CD19 can result in severe immunodeficiency syndromes. Clone 6D5 recognizes the same epitope as clone ID3 in cross-competition assays.

**Target Antigen Name:** CD19  
**Alternative Names:** B4  
**Gene ID:** 12478  
**Species Reactivity:** Mouse  
**Host Species:** Rat  
**Clonality:** Monoclonal  
**Clone:** 6D5  
**Isotype:** IgG2a, kappa  
**Immunogen:** Human K562 erythroleukemia cells expressing full-length recombinant mouse CD19

### Applications

**Verified:** CellSep, FC  
**Reported:** FC  
**Special Applications:** This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse B Cell Isolation Kit (Catalog #19854).

### Formulation

Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

### Purification

The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

### Stability and Storage

Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.

### Directions for Use

For flow cytometry the suggested use of this antibody is ≤ 0.25 μg per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Data

Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD19 Antibody, Clone 6D5, PE (filled histogram) or a rat IgG2a, kappa PE isotype control antibody (open histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References