

## Product datasheet

# PE/Cy5® Anti-CD19 antibody [6D5] ab25508

[3 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	PE/Cy5® Anti-CD19 antibody [6D5]
<b>Description</b>	PE/Cy5® Rat monoclonal [6D5] to CD19
<b>Host species</b>	Rat
<b>Conjugation</b>	PE/Cy5®. Ex: 496nm, Em: 670nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue, cells or virus corresponding to Mouse CD19. Mouse CD19-expressing K562 human erythroleukemia cells

### General notes

This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy® and CyDye® are trademarks of Cytiva.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Store In the Dark.
<b>Storage buffer</b>	pH: 7.1 Preservative: 0.09% Sodium azide Constituents: PBS, 0.2% Gelatin, 16% Sucrose  Also contains a stabilizing agent.
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal

Clone number	6D5
Isotype	IgG2a
Light chain type	kappa

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab25508 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		

**Application notes**

Flow Cyt: Use 0.2µg for 10<sup>6</sup> cells.  
 IP: Use at an assay dependent dilution.  
*In vivo* and *in vitro* functional studies: Use at an assay dependent dilution.

Not yet tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

## Target

**Function** Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

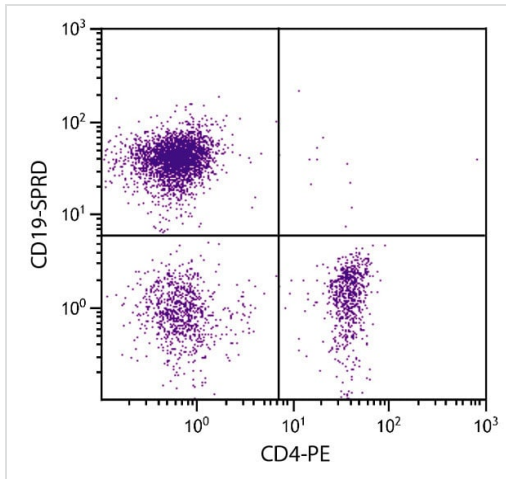
**Involvement in disease** Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) [MIM:613493]; also called antibody deficiency due to CD19 defect. CVID3 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.

**Sequence similarities** Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

**Post-translational modifications** Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B-cell activation.

**Cellular localization** Membrane.

## Images



Flow cytometric analysis of C57BL/6 mouse splenocytes labelling CD19 with ab25508 at 0.01  $\mu\text{g}/10^6$  cells and labelling CD4 with a Rat Anti-Mouse CD4-PE antibody ([ab25496](#)).

Flow Cytometry - PE/Cy5® Anti-CD19 antibody  
[6D5] (ab25508)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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