

Product datasheet

PE/Cy7® Anti-CD19 antibody [6D5] ab25509

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

Overview

Product name	PE/Cy7® Anti-CD19 antibody [6D5]
Description	PE/Cy7® Rat monoclonal [6D5] to CD19
Host species	Rat
Conjugation	PE/Cy7®. Ex: 496nm, Em: 774nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse CD19. Mouse CD19-expressing K562 human erythroleukemia cells
General notes	<p>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.</p> <p>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.</p> <p>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</p>

Properties

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

Clone number	6D5
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25509 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 10⁶ 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.

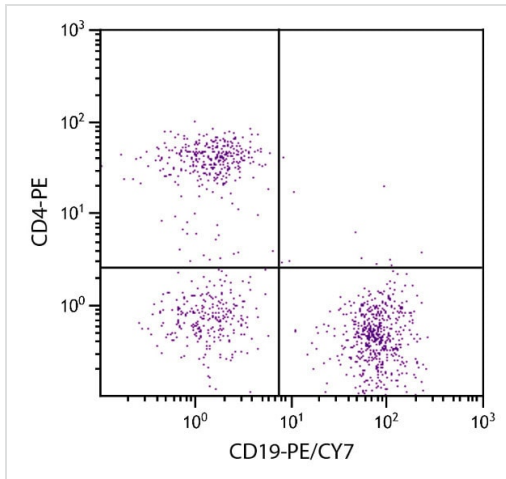
Involvement in disease Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) [MIM:613493]; also called antibody deficiency due to CD19 defect. CVID3 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and 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 ab25509 at 0.1 $\mu\text{g}/10^6$ cells and labelling CD4 with a Rat Anti-Mouse CD4-PE antibody ([ab25496](#)).

Flow Cytometry - PE/Cy7® Anti-CD19 antibody [6D5] (ab25509)

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