Product Datasheet

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

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
Specificity: CD19 B-cell differentiation antigen

Tested applications: Suitable for: Flow Cyt
Species reactivity: Reacts with: Mouse

Immunogen: 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 GE Healthcare Limited.

Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties
Form: Liquid

**Storage instructions:** Shipped at 4°C. Store at +4°C.

**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**

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flow Cyt</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application notes**

Flow Cyt: Use 0.2µg for 10^6 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.
Flow cytometric analysis of C57BL/6 mouse splenocytes labelling CD19 with ab25509 at 0.1 μg/10⁶ cells and labelling CD4 with a Rat Anti-Mouse CD4-PE antibody (ab25496).

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

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- Response to your inquiry within 24 hours
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

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