

## Product datasheet

### Anti-CD19 antibody [1D3] ab86902

[1 Image](#)

#### Overview

<b>Product name</b>	Anti-CD19 antibody [1D3]
<b>Description</b>	Rat monoclonal [1D3] to CD19
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Positive control</b>	Mouse splenocytes.
<b>General notes</b>	<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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: 0.16% Sodium phosphate, 0.87% Sodium chloride
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1D3
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab86902 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		Use 0.25µg for 10 <sup>6</sup> cells. <b>ab18450</b> - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

## 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.

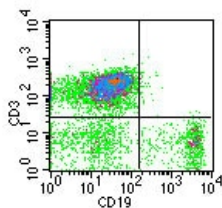
### Post-translational modifications

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 Cytometry - Anti-CD19 antibody [1D3]  
(ab86902)

ab86902 and an FITC conjugated anti mouse CD3 antibody, used at a concentration of 0.25 µg/10<sup>6</sup> cells, staining CD19 in mouse splenocytes by cell surface flow cytometric analysis. An anti rat PE secondary antibody was used.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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.

#### **Terms and conditions**

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