

Product datasheet

Anti-CD19 antibody [MB19-1] ab25177

4 References 1 Image

Overview

Product name	Anti-CD19 antibody [MB19-1]
Description	Mouse monoclonal [MB19-1] to CD19
Host species	Mouse
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse CD19. Mouse CD19 cDNA-transfected mouse 300.19 cells Database link: P25918
Positive control	Flow Cyt: Mouse splenocytes
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
Purification notes	Diafiltration.
Clonality	Monoclonal
Clone number	MB19-1
Isotype	IgA

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab25177 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 a concentration of 1 - 5 µg/ml. ab37322 - Mouse monoclonal IgA, 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.

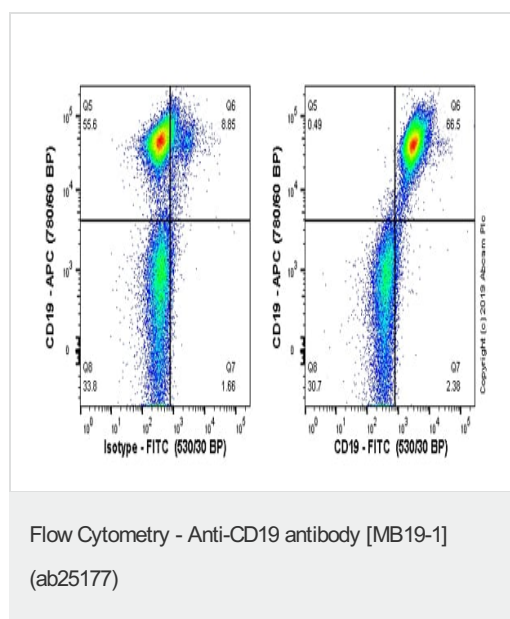
Post-translational modifications

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

Cellular localization

Membrane.

Images



C57BL6 mouse splenocytes were incubated with Mouse IgA kappa monoclonal [S107] ([ab37322](#)) (left) or anti-CD19 [MB19-1] antibody ([ab25177](#)) (right) at 1ug/ml for 30 min at 4+°C. The secondary antibody Goat Anti-Mouse IgA alpha chain (FITC) was used at 1/200 dilution for 30 min at 4+°C. The cells were simultaneously stained with anti-CD19 APC (10ug/ml).

Acquisition of >30,000 total events were collected. Gating strategy - live lymphocytes

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