abcam

Product datasheet

APC Anti-CD19 antibody [6D5] ab25484

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Overview

Product name	APC Anti-CD19 antibody [6D5]
Description	APC Rat monoclonal [6D5] to CD19
Host species	Rat
Conjugation	APC. Ex: 645nm, Em: 660nm
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	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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	pH: 7.3 Preservative: 0.09% Sodium azide Constituents: PBS, 16% Sucrose Stabilising 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 ab25484 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	★★★★☆ (2)	

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.

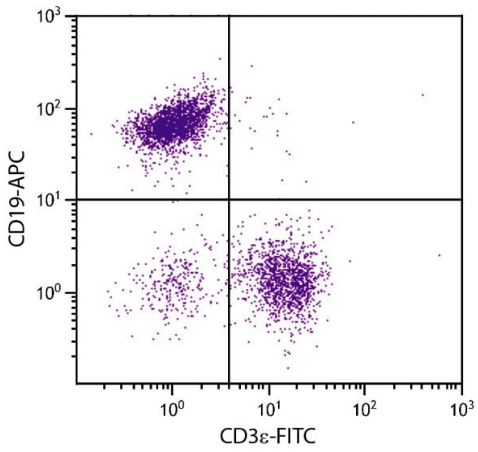
Involvement in disease Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) [MIM:613493]; also called antibody deficiency due to CD19 defect. CVID3 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and 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.

Images



Flow Cytometry - APC Anti-CD19 antibody [6D5] (ab25484)

Flow cytometric analysis of BALB/c mouse splenocytes labelling CD19 with ab25484 at 0.03 µg/10^6 cells and labelling CD3 epsilon with a Rat Anti-Mouse CD3-FITC antibody (**ab24948**).

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