abcam

Product datasheet

PE Anti-CD19 antibody [CB19] ab1168

★★★★★ 1 Abreviews 4 References

Overview

Product name	PE Anti-CD19 antibody [CB19]
Description	PE Mouse monoclonal [CB19] to CD19
Host species	Mouse
Conjugation	PE. Ex: 488nm, Em: 575nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human, Chimpanzee, Macaque monkey, Rhesus monkey
Immunogen	Tissue, cells or virus. Intact normal human B 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.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 0.5% BSA
Clonality	Monoclonal
Clone number	CB19
Myeloma	unknown
Isotype	IgG1
Light chain type	unknown

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab1168 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	★★★★★ **(1)**	Use at an assay dependent concentration. Characterization of leukemias and lymphomas in human lysed whole peripheral blood or mononuclear cells separated by density gradient. CD19 (PE) immunofluorescence analysis can be performed on a flow cytometerequipped with an excitation source of 488nm and fitted with logarithmic amplifiers. 10ul of CD19 (PE) is sufficient for labelling of 1x10^6 cells. **ab91357** - Mouse

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.

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