abcam

Product datasheet

Anti-CD19 antibody [A3-B1] (FITC) ab91155

1 Abreviews 1 Image

Overview

Product name	Anti-CD19 antibody [A3-B1] (FITC)
Description	Mouse monoclonal [A3-B1] to CD19 (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	ab91155 is B lineage-specific and reacts with early B-cell precursors, pre-pre-B-cells, pre-B-cells, B-cells, intermediate B-cells, mature B-cells and some plasmacytoid cells. Plasma cells were found to be negative. This antibody does not react with other haemopoïetic cells. The antibody also reacts with pre-B-cell- lines, B lymphoblastoid cell-lines and Burkitt cell- lines, and with 50% of myeloma cell-lines. Virtually all non T-ALL, B-CLL and B-cell lymphomas were found to be positive, myeloma cells were found to be negative.
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue/ cell preparation (Human)
Positive control	Human B cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 1% BSA, pH 7.2
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	A3-B1
Isotype	IgG2a
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab91155** 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		

Application notes

Flow Cyt: Use 20µl per test.

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.

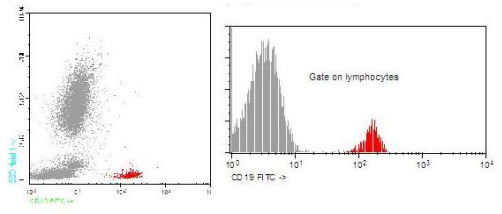
Post-translational modifications

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 - Anti-CD19 antibody [A3-B1] (FITC) (ab91155)

Human peripheral blood was labelled with ab91155 and analysed by flow cytometry.

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