abcam

Product datasheet

Anti-CD19 antibody [LT19] (PE/Cy7 ®) ab239315

1 Image

Overview

Product name	Anti-CD19 antibody [LT19] (PE/Cy7 ®)
Description	Mouse monoclonal [LT19] to CD19 (PE/Cy7 ®)
Host species	Mouse
Conjugation	PE/Cy7 ®. Ex: 496nm, Em: 774nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human CD19. Daudi human Burkitt lymphoma cell line.
Positive control	Flow Cyt: Human peripheral blood cells.
General notes	This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy and CyDye are trademarks of GE Healthcare Limited.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Purity	Size exclusion
Purification notes	The purified antibody is conjugated with tandem dye PE-Cy™7 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Clonality	Monoclonal
Clone number	LT19
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab239315** in the following tested applications.

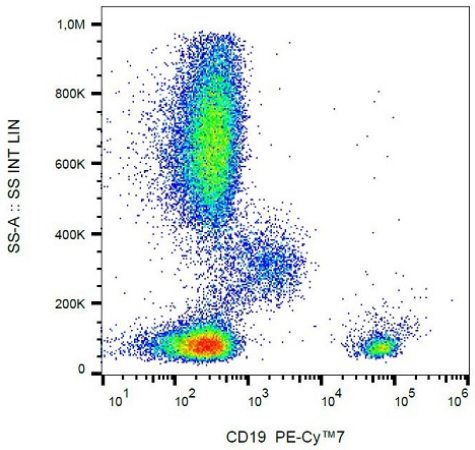
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 4µl for 10^6 cells. (or 100 µl of whole blood)

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 [LT19] (PE/Cy7 ®) (ab239315)

Flow cytometric analysis of human peripheral blood cells labeling CD19 using ab239315. Surface staining.

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

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