

CD19 Monoclonal Antibody (H1B19), PE

Catalog NumberA18677

Product data sheet

Details		Species Reactivity	
Size	25 tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1, kappa	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.25 µg/test
Clone	H1B19	Published Applications	
Immunogen	human CD19.	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Storage Conditions	4° C		

Background/Target Information

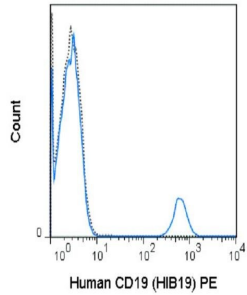
CD19 is a member of the immunoglobulin superfamily and has two Ig like domains. The CD19 molecule is expressed on 100% of the peripheral B cells as defined by expression of kappa or lambda light chains. CD19 appears to be expressed on myeloid leukemia cells, particularly those of monocytic lineage. Leukemia phenotype studies have demonstrated that the earliest and broadest B cell restricted antigen is the CD19 antigen. The receptor for CD19 is an important functional regulator of normal and malignant B cell proliferation, and is expressed in all B cell precursor leukemias. Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. CD19 is a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Besides being a signal-amplifying coreceptor for the B cell receptor (BCR), CD19 can also signal independently of BCR co-ligation and is a central regulatory component upon which multiple signaling pathways converge. Mutation of the CD19 gene results in hypogammaglobulinemia, whereas CD19 overexpression causes B cell hyperactivity.

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CD19 Antibody (A18677) in Flow

Human peripheral blood lymphocytes were stained with 5 μ L (0.25 μ g) PE Anti-Human CD19 (A18677) (solid line) or 0.25 μ g PE Mouse IgG1 isotype control (dashed line).

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PubMed References For CD19 Monoclonal Antibody (HIB19), PE

1 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	A18677 was used in flow cytometry to study IL-7 receptor expression and IL-7 signaling in human thymocytes
	Human immunology (2010; 71: 329) "Differential IL-7 responses in developing human thymocytes." Author(s):Marino JH,Tan C,Taylor AA,Bentley C,Van De Wiele CJ,Ranne R,Paliotta M,Broughan TA,Teague TK PubMed Article URL: http://dx.doi.org/10.1016/j.humimm.2010.01.009

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