

CD19 Monoclonal Antibody (6D5), APC

Catalog NumberRM7705

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Mouse
Host/Isotope	Rat / IgG2a	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	6D5	Published Applications	
Immunogen	mouse CD19 antigen	Flow Cytometry (Flow)	See 3 publications below
Conjugate	APC	* 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		
Concentration	0.2 mg/mL		
Purification	purified		
Storage buffer	PBS with 4mg/mL BSA, sucrose		
Contains	0.1% sodium azide		
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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PubMed References For CD19 Monoclonal Antibody (6D5), APC

3 Flow Cytometry References

Species / Dilution	Summary
	RM7705 was used in flow cytometry to study locus control regions in T cells.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2013; 191: 472) "Complete TCR- gene locus control region activity in T cells derived in vitro from embryonic stem cells." Author(s):Lahiji A,Kucerová-Levisohn M,Lovett J,Holmes R,Zúñiga-Pflücker JC,Ortiz BD PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1300521
Not Applicable / Not Cited	RM7705 was used in flow cytometry to study lymphoma in mice driven by Myc cooperating with the KSHV latency locus PLoS pathogens (2015; 11:) "KSHV Latency Locus Cooperates with Myc to Drive Lymphoma in Mice." Author(s):Sin SH,Kim Y,Eason A,Dittmer DP PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1005135
Mouse / Not Cited	RM7705 was used in Flow cytometry/Cell sorting to explore the potential of using kaposi's sarcoma-associated herpesvirus(KSHV)for in vivo B cell reprogramming. Journal of virology (2018; 92:) "Kaposi's Sarcoma-Associated Herpesvirus Latency Locus Renders B Cells Hyperresponsive to Secondary Infections." Author(s):Sin SH,Eason AB,Bigi R,Kim Y,Kang S,Tan K,Seltzer TA,Venkataramanan R,An H,Dittmer DP PubMed Article URL: http://dx.doi.org/10.1128/JVI.01138-18

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