

CD19 Monoclonal Antibody (6D5), Qdot™ 655

Catalog NumberQ10379

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Mouse
Host/Isotope	Rat / IgG2a	Published species	Mouse
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *Assay-dependent
Clone	6D5	Published Applications	
Immunogen	mouse CD19 antigen	Miscellaneous PubMed (Misc)	See 1 publications below
Conjugate	Qdot™ 655	* 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		
Purification	Affinity chromatography		
Storage buffer	0.05M borate, pH 8.3, with 1M betaine		
Contains	0.05% sodium azide		
Storage Conditions	4° C		

Background/Target Information

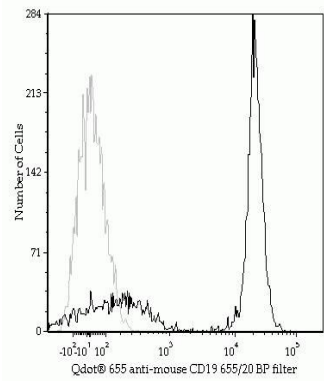
CD19 is a member of the immunoglobulin superfamily and has two Ig like domains. The CD19 molecule is expressed on 100% of the peripheral B cells as defined by expression of kappa or lambda light chains. CD19 appears to be expressed on myeloid leukemia cells, particularly those of monocytic lineage. Leukemia 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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CD19 Antibody (Q10379) in Flow

Log fluorescence intensity profiles of mouse splenocytes gated on lymphocytes and analyzed on a BD LSR II flow cytometer (BD Biosciences, San Jose, CA) using 405 nm excitation and the specified emission filters. The black line represents cells stained with anti-mouse CD19 antibody conjugate and the gray line represents unstained cells. Note: Flow cytometric data shown may not necessarily have been generated using the enclosed lot of reagent. For this reason, and due to differences in flow cytometers and cytometer settings, results may vary from those illustrated above. We recommend titrating reagents to determine optimal conditions for use in your systems.

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PubMed References For CD19 Monoclonal Antibody (6D5), Qdot™ 655

1 Miscellaneous PubMed References

Species / Dilution	Summary
Mouse / Not Cited	Q10379 was used in Mass cytometry to identifies specialised bone marrow granulocytic populations that ensure supply under homeostasis and stress responses.
	Immunity (2018; 48: 364)
	"Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions." Author(s):Evrard M,Kwok IWH,Chong SZ,Teng KWW,Becht E,Chen J,Sieow JL,Penny HL,Ching GC,Devi S,Adrover JM,Li JLY,Liong KH,Tan L,Poon Z,Foo S,Chua JW,Su IH,Balabanian K,Bachelerie F,Biswas SK,Larbi A,Hwang WYK,Madan V,Koeffler HP,Wong SC,Newell EW,Hidalgo A,Ginhoux F,Ng LG PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2018.02.002

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