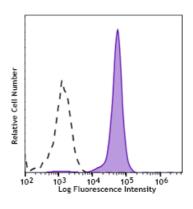
Spark Blue[™] 550 anti-human CD45

Catalog # / Size:	2442750 / 100 tests 2442745 / 25 tests	
Clone:	2D1	
lsotype:	Mouse IgG1, к	
Immunogen:	Human PBMC	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark Blue™ 550 under optimal conditions.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Workshop Number:	750 under optimal conditions.	
Concentration:	Lot-specific	



Human peripheral blood lymphocytes were stained with CD45 (clone 2D1) Spark Blue™ 550 (filled histogram). Open histogram represents unstained cells.

Applications:

Applications:	Flow Cytometry	2 10 ⁵
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	Monse Increase Monse Increase Monse Increase Monse Increase Monse Increase Monse Increase Monse Increase Monse Increase CD56 PE
	* Spark Blue™ 550 has a maximum excitation of 516 nm and a maximum emission of 540 nm.	
Application Notes:	It was found that the HI30 clone and the 2D1 clone can cross block each other's binding.	
Application References:	 Bradstock KF, et al. 1980. J. Natl. Cancer Inst. 65:33. Csiba A, et al. 1984. Br. J. Cancer 50:699. Tchilian EZ, et al. 2001. J. Immunol. 166:1308. Lee MS, et al. 2004. Int. Immunol. 16:1109. 	

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Description: CD45 is a 180 - 240 kD single chain type I membrane glycoprotein also known as leukocyte common antigen (LCA) and T200. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes or platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinases. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to bind galectin-1 and to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4.

Antigen1. Thomas M. 1989. Annu. Rev. Immunol. 7:339.References:2. Trowbridge I, et al. 1994. Annu. Rev. Immunol. 12:85.