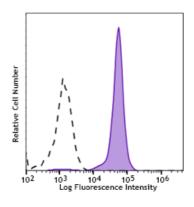
Spark Blue[™] 550 anti-human CD45

Catalog # / Size:	2442745 / 25 tests 2442750 / 100 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).
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 Recommended Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the Usage: 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. * Spark Blue[™] 550 has a maximum excitation of 516 nm and a maximum emission of 540 nm. Application It was found that the HI30 clone and the 2D1 clone can cross block each Notes: other's binding. Application 1. Bradstock KF, et al. 1980. J. Natl. Cancer Inst. 65:33. **References:** 2. Csiba A, et al. 1984. Br. J. Cancer 50:699. 3. Tchilian EZ, et al. 2001. J. Immunol. 166:1308. 4. Lee MS, et al. 2004. Int. Immunol. 16:1109.

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.

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Antigen	1. Thomas M. 1989. Annu. Rev. Immunol. 7:339.
References:	2. Trowbridge I, et al. 1994. Annu. Rev. Immunol. 12:85.

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