Spark YG™ 581 anti-human CD4

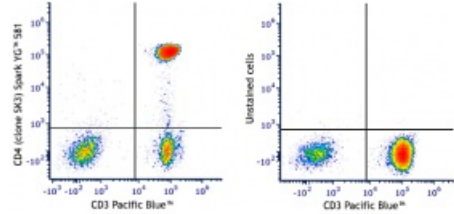|	
Catalog # / Size:	2323345 / 25 tests 2323350 / 100 tests
Clone:	SK3
Isotype:	Mouse IgG1, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark YG™ 581 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Concentration:	Lot-specific

Human peripheral blood lymphocytes were stained with anti-human CD3 Pacific Blue™ and anti-human CD4 (clone SK3) Spark YG™ 581 (left) or CD3 Pacific Blue™ only (right).

Applications:

Applications:	Flow Cytometry
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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark YG™ 581 has a maximum excitation of 562 nm and a maximum emission of 581 nm.
Application References:	1. Evans RL, *et al.* 1981. *Immunol.* 78:544 2. Arno A *et al. 1999. J. Infect. Dis. 180:56* 3. Muech M, *et al.* 1997. *Blood 89:*1364 4. Wang L, *et al.* 2012. *Cytometry A.* 81:567. <u>PubMed</u>

Description:	CD4, also known as T4, is a 55 kD single-chain type I transmembrane glycoprotein expressed on most thymocytes, a subset of T cells, and monocytes/macrophages. CD4, a member of the Ig superfamily, recognizes antigens associated with MHC class II molecules and participates in cell-cell interactions, thymic differentiation, and signal transduction. CD4 acts as a primary receptor for HIV, binding to HIV gp120. CD4 has also been shown to interact with IL-16.
Antigen References:	1. Center D *et al.* 1996. *Immunol. Today* 17:476. 2. Gaubin M *et al.* 1996. *Eur. J. Clin. Chem. Clin. Biochem.* 34:723.