

Spark YG™ 593 anti-human CD4

Catalog # / Size: 2323360 / 100 tests
2323355 / 25 tests

Clone: SK3

Isotype: Mouse IgG1, κ

Immunogen: Papain solubilized HLA-A2

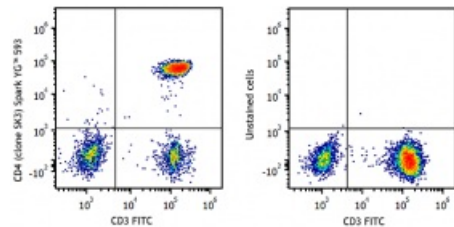
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Spark YG™ 593 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: IV T-164

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD3 FITC and anti-human CD4 (clone SK3) Spark YG™ 593 (left) or cells stained only with anti-human CD3 FITC (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™ 593 has a maximum excitation of 573 nm and a maximum emission of 593 nm.

Application Notes: The BB7.2 antibody recognizes human leukocyte antigen (HLA) A2 which is a subset of MHC-class I molecules encoded by A*02 alleles.

Additional reported applications (for the relevant formats) include: immunoprecipitation³.

- 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. [PubMed](#)

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.

