SONY

Product Data Sheet

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

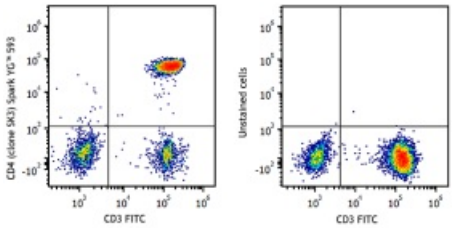
Reactivity: Human

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 BSA (origin USA)

Workshop Number: IV T-164

Concentration: Lot-specific



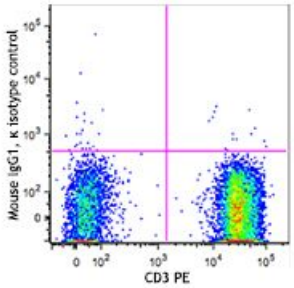
Human peripheral blood lymphocytes were stained with anti-human CD3 FITC and anti-human CD4 (clone SK3) Spark YG™ 593 (left) or cells stained only with anti-human CD3 FITC (right).

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: immunoprecipitation[3].

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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.