Product Data Sheet

Spark Blue™ 550 anti-human CD4

Catalog # / 2323280 / 100 tests

Size: 2323275 / 25 tests

Clone: SK3

Isotype: Mouse IgG1, ĸ

Papain solubilized HLA-A2 Immunogen:

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,

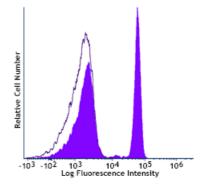
containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop **Number:**

IV T-164

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD4 (SK3) Spark Blue 550 (filled histogram) versus unstained cells

(open histogram).

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 Blue™ 550 has a maximum excitation of 516 nm and a maximum

emission of 540 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 cellcell 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

1. Center D et al. 1996. Immunol. Today 17:476.

2. Gaubin M et al. 1996. Eur. J. Clin. Chem. Clin. Biochem. 34:723. References: