
Product Data Sheet

PE/Fire™ 810 anti-human CD4

Catalog # / Size: 2323385 / 25 tests

Clone: SK3

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Concentration: Lot-specific

□ Human peripheral blood lymphocytes were stained with anti-human CD3 APC and anti-human CD4 (clone SK3) PE/Fire™ 810 (left), or stained with anti-human CD3 APC 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.

* PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 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. [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.