SONY

# Product Data Sheet

## PE/Fire™ 810 anti-human CD4

**Catalog # / Size:** 2323385 / 25 tests

**Clone:** SK3

**Isotype:** Mouse IgG1, κ

**Immunogen:** Recombinant human NKp30

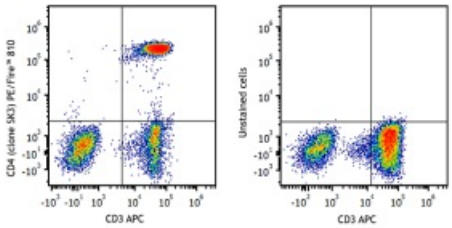
**Reactivity:** Human

**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)

**Workshop Number:** IV N816

**Concentration:** Lot-specific



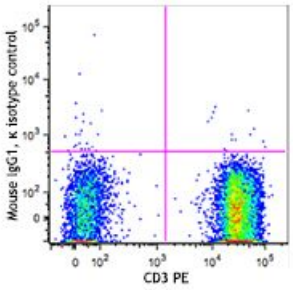

Human peripheral blood lymphocytes were stained with anti-human CD3 APC and anti-human CD4 (clone SK3) PE/Fire™ 810 (left), or stained with anti-human CD3 APC only (right).

## 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 Notes:** Additional reported applications (for the relevant formats) include: ELISA, stimulation of human NK cells via NKp30 in a redirected lysis assay, and blocking of NKp30 function in solution[1,3,5]. The Ultra-LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 325223 & 325224).

**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



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**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.

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