SONY

Product Data Sheet

Alexa Fluor® 700 anti-human CD4

Catalog # / Size: 2323110 / 100 tests
2323105 / 25 tests

Clone: SK3

Isotype: Mouse IgG1, κ

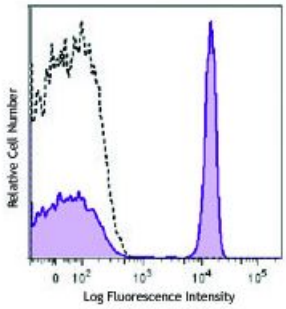
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.

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

Workshop Number: V B-CD73.3

Concentration: Lot-specific



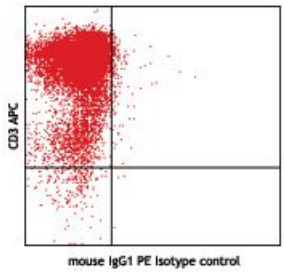
Human peripheral blood lymphocytes were stained with CD4 (clone SK3) Alexa Fluor® 700 (filled histogram) or mouse IgG1, κAlexa Fluor® 700 (open histogram).

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.



PHA-stimulated human peripheral blood mononuclear cells (day-3) stained with CD3 APC and mouse IgG1, κPE isotype control

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.

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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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