

ANTI-HUMAN CD4

**Conjugated Mouse Monoclonal Antibodies Against Human CD4
Clone SK3**

FITC Conjugate:	Catalog # 10403	100 tests
PE Conjugate:	Catalog # 10503	100 tests

SPECIFICITY:

Human CD4 is a 59 kDa single-chain transmembrane glycoprotein. It is expressed on most thymocytes and on a subset of T cells. Monocytes also express CD4 at low levels. CD4 binds to a non-polymorphic region of MHC II and acts as a co-receptor with the TCR in MHC II restricted antigen recognition. It is used as a marker of MHC II restricted T cells.

This antibody also recognizes CD4 on rhesus and cynomolgus monkey cells.

CLONE: SK3

ISOTYPE: IgG₁κ (mouse)

FORMAT:

FITC-conjugate: 6 µg in 2 mL (3 µg/mL) in phosphate buffered saline (PBS) containing gelatin and 0.1% (w/v) sodium azide.

PE-conjugate: 6 µg in 2 mL (3 µg/mL) in PBS containing gelatin and 0.1% (w/v) sodium azide.

STABILITY AND STORAGE:

Store at 4°C. Do not freeze. Product is stable for at least 6 months.

APPLICATIONS AND DIRECTIONS FOR USE:

Flow cytometry:

Recommended amount per 1x10⁶ cells in a volume of 100 µL:

- FITC-conjugate (Cat No. 10403): 20 µL
- PE-conjugate (Cat No. 10503): 20 µL

Appropriate conditions should be established for each application.

Cell separation:

Positive selection of CD4⁺ cells with StemCell's reagents for immunomagnetic cell separation. Please contact us for more information.

**NOT FOR CLINICAL USE; INCLUDING IN VITRO DIAGNOSTIC USE, AND EX VIVO OR IN VIVO THERAPEUTIC USE IN CLINICAL TRIALS OR IN CLINICAL PRACTISE.
THIS REAGENT IS FOR RESEARCH ONLY.**

Hazardous Ingredient: Sodium Azide. *Avoid exposure to skin and eyes, ingestion and contact with heat, acids and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharging into plumbing.*

REFERENCES:

1. Barclay AN, Brown MH, Law SKA, McKnight AJ, Tomlinson MG, van der Merwe PA, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD4. Academic Press, NY, p 141-142
2. Parnes JR; Molecular biology and function of CD4 and CD8; 1989; Adv Immunol 44:265-311.
3. Sakihama T, Smolyar A, Reinherz EL, Molecular recognition of antigen involves lattice formation between CD4, MHC class II and TCR molecules 1995; Immunol Today 16:581-587.
4. Kishimoto T et al. Eds.1998. Leukocyte Typing VI. White Cell Differentiation Antigens. Garland Publishing Inc, New York NY, p1111-1112.