

## CD4 antibody [SK3] (PE-Cy7)

Cat. No. GTX01461-10

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	FACS
Reactivity	Human, Cynomolgus monkey, Rhesus Monkey

Reference ( 5 )  
Package  
100 test

## PRODUCT

## Summary

The SK3 antibody reacts with human CD4, a 59 kDa protein which acts as a co-receptor for the T cell receptor (TCR) in its interaction with MHC Class II molecules on antigen-presenting cells. The extracellular domain of CD4 binds to the beta-2 domain of MHC Class II, while its cytoplasmic tail provides a binding site for the tyrosine kinase lck, facilitating the signaling cascade that initiates T cell activation. CD4, and co-receptors CCR5 and CXCR4, may also be utilized by HIV-1 to enter T cells. Human CD4 is typically expressed on thymocytes, some mature T cell populations such as Th17 and T regulatory (Treg) cells, as well as on dendritic cells. The SK3 antibody is widely used as a phenotypic marker for human CD4 expression, and has been reported to be cross-reactive with Rhesus and Cynomolgus CD4. This antibody does not block binding of alternative clone RPA-T4, suggesting that they recognize different epitopes.

## APPLICATION

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
FACS	0.06 µg (5 µl) for 10 <sup>5</sup> -10 <sup>8</sup> cells in 100 µl sample per test

Not tested in other applications.

Calculated MW 51 kDa. ( [Note](#) )

## PROPERTIES

Form	Liquid
Buffer	10mM NaH <sub>2</sub> PO <sub>4</sub> , 150mM NaCl, 0.1% Gelatin
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. DO NOT FREEZE. Protect from light.
Concentration	0.012 mg/ml (Please refer to the vial label for the specific concentration.)
Purification	Purified by affinity chromatography From tissue culture supernatant
Conjugation	Phycoerythrin-Cyanine7 (PE-Cy7)



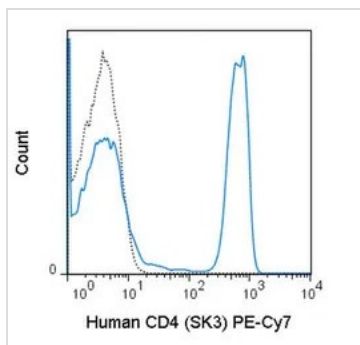
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For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

**Note**

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

**DATA IMAGES**

**GTx01461-10 FACS Image**

FACS analysis of human peripheral blood lymphocytes using GTx01461-10 CD4 antibody [SK3] (PE-Cy7).

Solid line : primary antibody

Dashed line : isotype control

antibody amount : 0.06  $\mu$ g (5  $\mu$ l)



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