

CD4 antibody [SK3] (PE-Cy7)

Cat. No. GTX01461-10

| | |
|--------------|---|
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Applications | FCM |
| Reactivity | Human, Cynomolgus monkey, Rhesus Monkey |

References (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.

Applications

Application Note

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

| Suggested dilution | Recommended dilution |
|--------------------|---|
| FCM | 0.06 µg (5 µl) for 10 ⁵ -10 ⁸ cells in 100 µl sample per test |

Not tested in other applications.

Properties

| | |
|---------------|--|
| Form | Liquid |
| Buffer | 10mM NaH ₂ PO ₄ , 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) Wavelength |



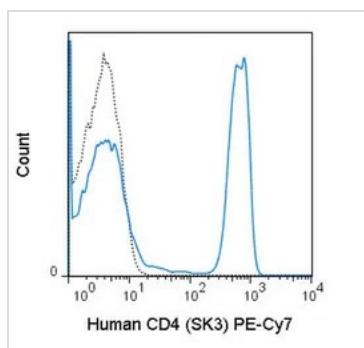
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Note

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 FCM 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 µg (5 µl)



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