# Recombinant Anti-CD4 Antibody (V3S-0522-YC5285)

**Cat. No.: V3S-0522-YC5285**

## Summary

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| **Description** | This product is a monoclonal antibody derived from Human (*Homo sapiens*), which can specifically recognize CD4 molecule. The antibody is expressed with mammalian cell transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation.<br>Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The *In vivo* version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 EU/mg), and is preservative, stabilizer, and carrier protein-free. |
| **Clonality** | Monoclonal |
| **Host Species** | Human |
| **Target Species** | Human, Chimpanzee |
| **Isotype** | IgG1 |
| **Isotype Control** | C67002; C43061 |
| **Secondary Antibody** | C32400; C75370; C10513; C51635; C45530; C61612; C23324 |

## Property

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| **Expression Species** | HEK293F or CHO |
| **Conjugation** | None |
| **Purity** | >95%, determined by SDS-PAGE and/or SEC-HPLC |
| **Endotoxin** | <1 EU/mg, determined by LAL method |
| **Purification** | Protein A affinity purified |
| **Sterility** | 0.2 μM filtered |
| **Formulation** | PBS, pH 7.4 |
| **Preservation** | No preservatives |
| **Stabilizer** | No stabilizers |
| **Storage** | Store at 4$^0$C within a week. For longer storage, aliquot and store at -20$^0$C. |

## Applications

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

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| **Application** | FC; SPR; ELISA |
| **Application Notes** | The antibody is recommended for detection of CD4 by FC, SPR, ELISA assays. |

## Target

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| **Target** | CD4 |
| **Alternative Name** | CD4mut; CD4 |
| **Gene ID** | 920 |
| **UniProt** | P01730 |
| **Introduction** | CD4 molecule is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigenes and is also a receptor for the human immunodeficiency virus. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. |
| **Research Area** | Immunology; Stem Cell |
| **Related Disease** | B cell lymphoma, Infectious diseases, Autoimmune and inflammatory diseases |
| **Proceedings of R&D** | Diseases associated with CD4 include Okt4 Epitope Deficiency and Immunodeficiency 79. Among its related pathways are Notch-mediated HES/HEY network and B Cell Receptor Signaling Pathway (sino). Gene Ontology (GO) annotations related to this gene include protein homodimerization activity and enzyme binding. |

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