

ARG21298 anti-CD4 antibody [RFT4] (PE)

Package: 50 tests
Store at: 4°C

Summary

| | |
|---------------------|--|
| Product Description | PE-conjugated Mouse Monoclonal antibody [RFT4] recognizes CD4 |
| Tested Reactivity | Hu |
| Tested Application | FACS, ICC/IF, IHC-Fr, WB |
| Specificity | Human CD4. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | RFT4 |
| Isotype | IgG1, kappa |
| Target Name | CD4 |
| Species | Human |
| Immunogen | Thymocytes and E-rosetted lymphocytes |
| Conjugation | PE |
| Alternate Names | CD4mut; CD antigen CD4; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------------------|
| | FACS | 10 µl/10 ⁶ cells |
| | ICC/IF | Assay-dependent |
| | IHC-Fr | Assay-dependent |
| | WB | Assay-dependent |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

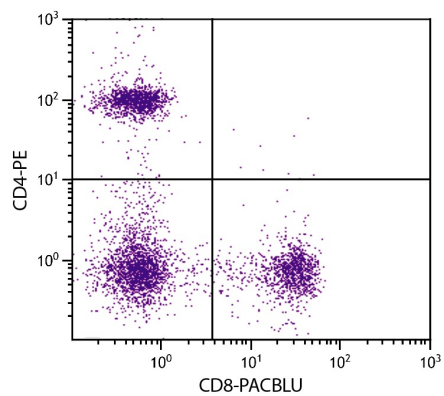
Properties

| | |
|---------------------|--|
| Form | Liquid |
| Buffer | PBS, 0.1% Sodium azide and Sucrose. |
| Preservative | 0.1% Sodium azide |
| Stabilizer | Sucrose |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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|----------------|--|
| Database links | GeneID: 920 Human Swiss-port # P01730 Human |
| Gene Symbol | CD4 |
| Gene Full Name | CD4 molecule |
| Background | CD4 is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. 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. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Aug 2010] |
| Function | CD4 is an integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages. [UniProt] |
| Highlight | Related products: CD4 antibodies ; CD4 ELISA Kits ; CD4 Duos / Panels ; Anti-Mouse IgG secondary antibodies ; Related news: New antibody panels and duos for Tumor immune microenvironment Tumor-Infiltrating Lymphocytes (TILs) |
| Research Area | Developmental Biology antibody; Immune System antibody; Regulatory T cells Study antibody; T-cell infiltration Study antibody; Tumor-infiltrating Lymphocyte Study antibody |
| Calculated Mw | 51 kDa |
| PTM | Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts. |



ARG21298 anti-CD4 antibody [RFT4] (PE) FACS image

Flow Cytometry: Human peripheral blood lymphocytes stained with anti-CD8 antibody (Pacific Blue) and ARG21298 anti-CD4 antibody [RFT4] (PE).