

Product datasheet

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ARG21305 anti-CD4 antibody [RFT4] (APC-Cyanine 7)

Package: 50 tests Store at: 4°C

Summary

Product Description APC-Cyanine 7-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 APC-Cyanine 7

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.

Bioinformation

Database links <u>GeneID: 920 Human</u>

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 antigenes 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

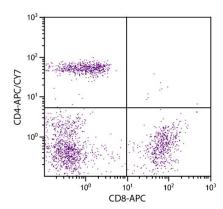
Tumor-Infiltrating Lymphocytes (TILs)

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.



ARG21305 anti-CD4 antibody [RFT4] (APC-Cyanine 7) FACS image

Flow Cytometry: Human peripheral blood lymphocytes stained with ARG21305 anti-CD4 antibody [RFT4] (APC-Cyanine 7) and $\underline{\mathsf{ARG21315}}$ anti-CD8 antibody [RFT8] (APC).