

PE/Cyanine7 anti-human CD4 Recombinant Antibody

Catalog# / Size	302405 / 25 tests 302406 / 100 tests
Clone	QA18A35
Regulatory Status	RUO
Other Names	T4/Leu-3
Isotype	Mouse IgG1, κ
Description	CD4, also known as T4/Leu-3, is a 55 kD single-chain type I transmembrane glycoprotein and member of the immunoglobulin superfamily. It is expressed on most thymocytes, helper T cells, type II NKT cells, and monocytes/macrophages. CD4 is part of the TCR/CD3 complex, binds to $\beta 2$ domain from the MHC class II molecule, and participates in TCR signal transduction. CD4 is the receptor of IL-16 and is a coreceptor for the human immunodeficiency virus (HIV) and human herpes virus 7 (HHV-7).

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	Proprietary
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3683306 (BioLegend Cat. No. 302405) AB_3683306 (BioLegend Cat. No. 302406)

Antigen Details

Structure	55 kD, type I transmembrane glycoprotein, member of the Ig superfamily
Distribution	Helper T cells, subset of thymocytes, monocytes/macrophages, type II NKT cells
Interaction	Part of the TCR/CD3 complex
Ligand/Receptor	$\beta 2$ domain from the MHC class II

Cell Type	Monocytes, NKT cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Zhu J, <i>et al.</i> 2010. <i>Annu. Rev. Immunol.</i> 28:445. 2. Vignali DA. 2010. <i>J. Immunol.</i> 184:5933. 3. Zhou L, <i>et al.</i> 2009. <i>Immunity.</i> 30:646. 4. Singer A, <i>et al.</i> 2008. <i>Nat. Rev. Immunol.</i> 8:788. 5. Zhu J and Paul WE. 2008. <i>Blood.</i> 112:1557.
Gene ID	920

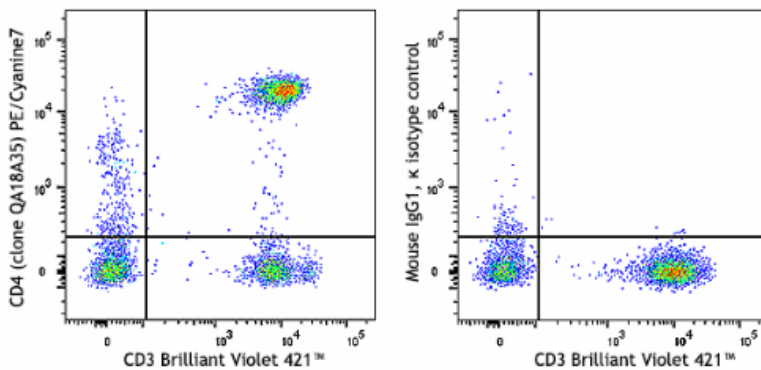
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human CD4 Recombinant Antibody, Purified anti-human CD4 Recombinant Antibody, PE/Cyanine7 anti-human CD4 Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Brilliant Violet 421™ and anti-human CD4 recombinant (clone QA18A35) PE/Cyanine (left) or mouse IgG1, κ PE/Cyanine7 isotype control (right).

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