ARG21156
anti-CD4 antibody [CT-4] (FITC)

Package: 100 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [CT-4] recognizes CD4
Tested Reactivity	Chk, Turkey
Tested Application	BL, FACS, IHC-Fr, IHC-P
Specificity	Chicken/Turkey/Quail CD4. The clone CT-4 inhibits both PHA- and Con A-induced proliferative responses of splenocytes and PWM-induced IL-2 production. This antibody also reacts with turkey and quail as demonstrated by flow cytometry.
Host	Mouse
Clonality	Monoclonal
Clone	CT-4
Isotype	IgG1, kappa
Target Name	CD4
Species	Chicken
Immunogen	Chicken thymocytes and Ig-negative blood leukocytes
Conjugation	FITC
Alternate Names	CD4mut; CD antigen CD4; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3

Application Instructions

Application table

Application	Dilution
BL	Assay-dependent
FACS	< 1 µg/10^6 cells
IHC-Fr	Assay-dependent
IHC-P	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

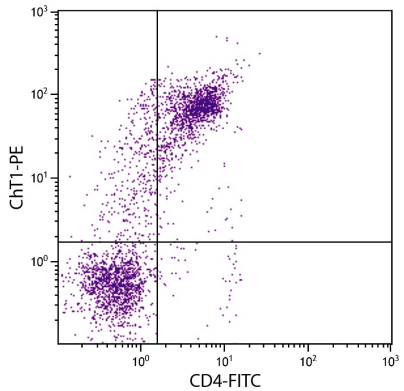
Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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

Bioinformation

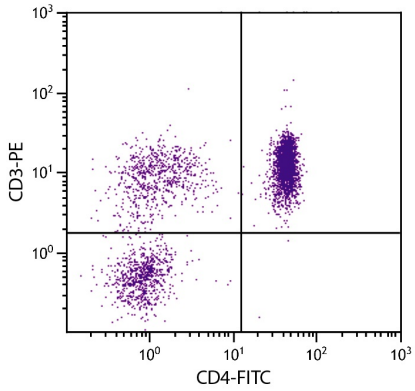
Gene Symbol	CD4
Gene Full Name	CD4 molecule
Background	CD4 is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigenes and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, 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.

Images



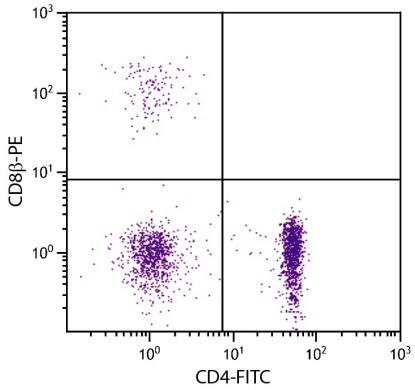
ARG21156 anti-CD4 antibody [CT-4] (FITC) FACS image

Flow Cytometry: Chicken peripheral blood mononuclear cells stained with ARG22145 anti-ChT1 antibody [CT1] (PE) and ARG21156 anti-CD4 antibody [CT-4] (FITC).



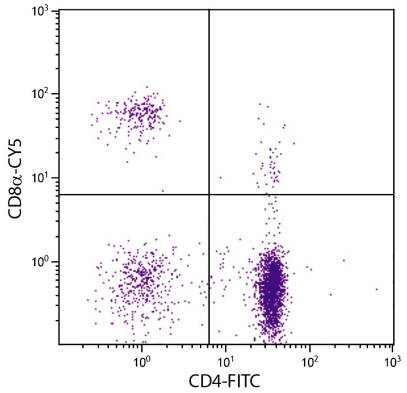
ARG21156 anti-CD4 antibody [CT-4] (FITC) FACS image

Flow Cytometry: Chicken peripheral blood mononuclear cells stained with ARG21156 anti-CD4 antibody [CT-4] (FITC) and ARG21153 anti-CD3 epsilon antibody [CT-3] (PE).



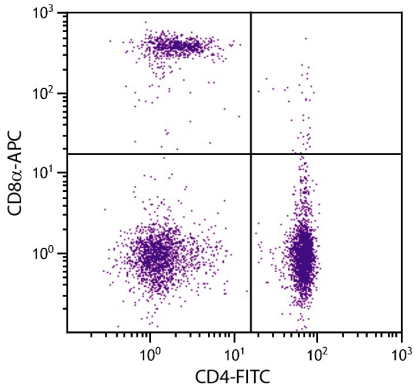
ARG21156 anti-CD4 antibody [CT-4] (FITC) FACS image

Flow Cytometry: Chicken peripheral blood mononuclear cells stained with ARG21195 anti-CD8b antibody [EP42] (PE) and ARG21156 anti-CD4 antibody [CT-4] (FITC).



ARG21156 anti-CD4 antibody [CT-4] (FITC) FACS image

Flow Cytometry: Chicken peripheral blood mononuclear cells stained with ARG21242 anti-CD8a antibody [3-298] (Cy5) and ARG21156 anti-CD4 antibody [CT-4] (FITC).



ARG21156 anti-CD4 antibody [CT-4] (FITC) FACS image

Flow Cytometry: Chicken peripheral blood mononuclear cells stained with ARG22346 anti-CD8a antibody [CT-8] (APC) and ARG21156 anti-CD4 antibody [CT-4] (FITC).