

Product datasheet

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ARG53842 anti-CD4 antibody [MEM-241] (PerCP)

Package: 100 tests Store at: 4°C

Summary

Product Description PerCP-conjugated Mouse Monoclonal antibody [MEM-241] recognizes CD4

Tested Reactivity Hu
Tested Application FACS

Specificity The clone MEM-241 recognizes CD4 antigen, a 55 kDa transmebrane glycoprotein expressed on a

subset of T lymphocytes ("helper" T-cells) and also on monocytes, tissue macrophages and

granulocytes.

HCDM (former HLDA VIII) Meeting, May 2006, Québec, Canada; WS Code M241

Host Mouse

Clonality Monoclonal

Clone MEM-241

Isotype IgG1

Target Name CD4

Species Human

Immunogen 2 N-terminal domains of human CD4 fused to human IgG1 Fc

Conjugation PerCP

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

Properties

Form Liquid

Purification Note The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum

conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No

reconstitution is necessary.

Buffer PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative 15 mM Sodium azide

Stabilizer 0.2% (w/v) high-grade protease free BSA

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

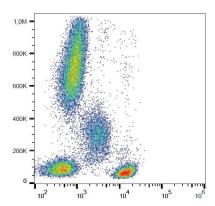
Tumor-Infiltrating Lymphocytes (TILs)

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.



ARG53842 anti-CD4 antibody [MEM-241] (PerCP) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG53842 anti-CD4 antibody [MEM-241] (PerCP).