

## Product datasheet

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# ARG53840 anti-CD4 antibody [MEM-241] (APC)

Package: 100 tests Store at: 4°C

#### Summary

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

**Tested Reactivity** Hu **Tested Application FACS** Host Mouse Clonality Monoclonal Clone MEM-241 Isotype lgG1 **Target Name** CD4 **Species** Human

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

Conjugation APC

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 cross-linked Allophycocyanin (APC) 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.

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

#### Bioinformation

Database links GenelD: 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 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 Thelper 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)

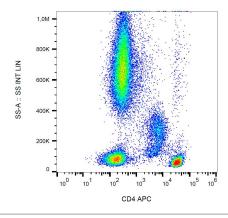
Research Area Developmental Biology antibody; Immune System antibody; Regulatory T cells Study antibody; T-cell

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**



#### ARG53840 anti-CD4 antibody [MEM-241] (APC) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG53840 anti-CD4 antibody [MEM-241] (APC).