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30-1001: Anti-CD4 Monoclonal Antibody (Clone:MEM-115)-Azide free

Clonality: Monoclonal Clone Name: MEM-115

Application: IP
Reactivity: Human
Gene: CD4
Gene ID: 920
Uniprot ID: P01730
Alternative Name: CD4

Isotype: Mouse IgG2a

Immunogen Information: Human thymocytes and T lymphocytes.

Description

CD4 is a single chain transmembrane glycoprotein and belongs to immunoglobulin supergene family. In extracellular region there are 4 immunoglobulin-like domains (1 Ig-like V-type and 3 Ig-like C2-type). Transmembrane region forms 25 aa, cytoplasmic tail consists of 38 aa. Domains 1,2 and 4 are stabilized by disulfide bonds. The intracellular domain of CD4 is associated with p56Lck, a Src-like protein tyrosine kinase. It was described that CD4 segregates into specific detergent-resistant T-cell membrane microdomains.Extracellular ligands: MHC class II molecules (binds to CDR2-like region in CD4 domain 1); HIV envelope protein gp120 (binds to CDR2-like region in CD4 domain 1); IL-16 (binds to CD4 domain 3), Human seminal plasma glycoprotein gp17 (binds to CD4 domain 1), L-selectin Intracellular ligands: p56LckCD4 is a co-receptor involved in immune response (co-receptor activity in binding to MHC class II molecules) and HIV infection (human immunodeficiency virus; CD4 is primary receptor for HIV-1 surface glycoprotein gp120). CD4 regulates T-cell activation, T/B-cell adhesion, T-cell diferentiation, T-cell selection and signal transduction. Defects in antigen presentation (MHC class II) cause dysfunction of CD4+ T-cells and their almost complete absence in patients blood, tissue and organs (SCID immunodeficiency).

Product Info

Amount: 0.1 mg

Purification: Purified by protein-A affinity chromatography

Storage condition : Store at 2-8°C. Do not freeze.

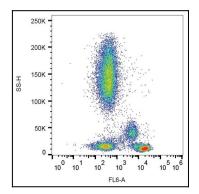


Figure 1: Flow cytometry analysis (surface staining) of human peripheral blood with anti-human CD4 (MEM-115) purified antibody (azide free), GAM-APC.



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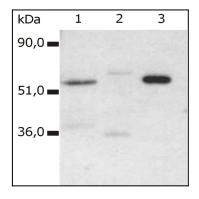


Figure 2: Immunoprecipitation of human CD4 from the lysate T cells isolated from fresh buffy coats. Western blot was immunostained by anti-human CD4 (MEM-241;). Lane 1: original lysate of T cells. Lane 2: immunoprecipitate by negative control antibody. Lane 3: immunoprecipitate by anti-human CD4 (MEM-115)