

APC Mouse Anti-Human CD4

Purified APC-conjugated Recombinant Mouse Monoclonal Antibody

Catalog # F100215

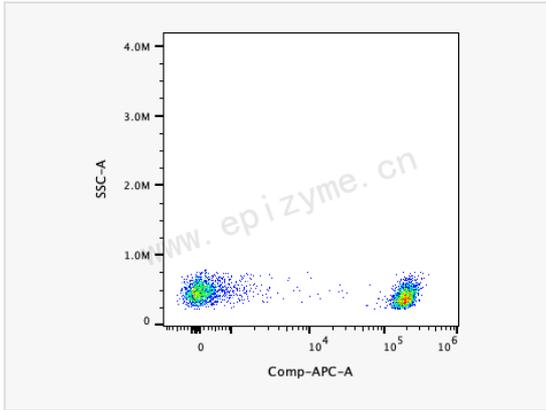
Product Information

Application	FC
Recommended Usage	5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood.
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone No.	42D94J37
Isotype	IgG1, κ
Label	APC
Immunogen	Recombinant protein of human CD4
Format	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA.
Storage	Shipped on wet ice. Store undiluted between 2°C and 8°C and protected from prolonged exposure to light. Do not freeze.
Precautions	APC Mouse Anti-Human CD4 [42D94J37] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	CD4 (L3T4), CD4 antigen (p55), CD4 antigen, CD4 molecule, CD4 receptor, CD4+ Lymphocyte deficiency, included, CD4_HUMAN, CD4mut, L3T4, Leu3, Ly-4, Lymphocyte antigen CD4, MGC165891, OTTHUMP00000238897, p55, T cell antigen T4, T cell antigen T4/LEU3, T cell differentiation antigen L3T4, T cell OKT4 deficiency, included, T cell surface antigen T4/Leu 3, T cell surface antigen T4/Leu3, T cell surface glycoprotein CD4, T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4, W3/25, W3/25 antigen.
Uniprot ID	P01730
Gene ID	920
Background	CD4, also known as T4, is a 55 kD single-chain type I transmembrane glycoprotein expressed on most thymocytes, a subset of T cells, and monocytes/macrophages. CD4, a member of the Ig superfamily, recognizes antigens associated with MHC class II molecules and participates in cell-cell interactions, thymic differentiation, and signal transduction. CD4 acts as a primary receptor for HIV, binding to HIV gp120. CD4 has also been shown to interact with IL-16.
Cellular Location	Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope glycoprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

Validation Images



Human peripheral blood lymphocytes were stained with APC Mouse Anti-Human CD4 [42D94J37].