

PE-Cy7 Mouse Anti-Human CD4

Purified PE-Cy7-conjugated Recombinant Mouse Monoclonal Antibody

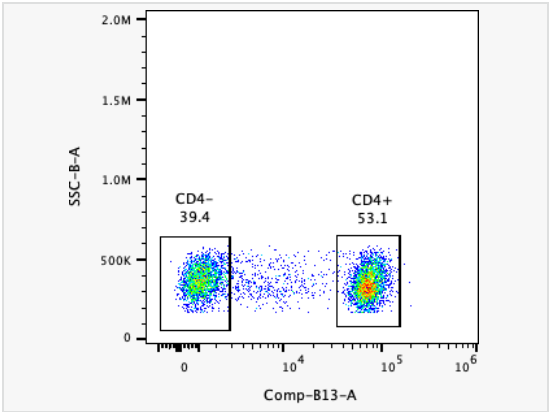
Catalog # F100214

Product Information

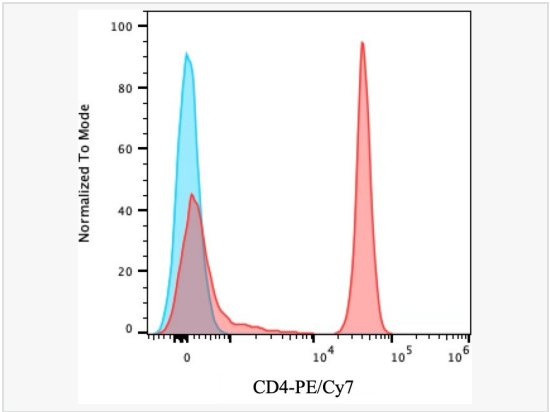
Application	FC
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone No.	42D94J37
Isotype	IgG
Label	PE-Cy7
Immunogen	Recombinant protein of human CD45
Format	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA.
Storage	Shipped on wet ice. Store undiluted between 2°C and 8°C and protected from prolonged exposure to light. Do not freeze. Stable for 24 months from date of receipt.
Precautions	PE-Cy7 Mouse Anti-Human CD4 [42D94J37] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	CD 4, CD4 (L3T4), CD4, 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 polypeptide gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.



Human peripheral blood lymphocytes were stained with PE-Cy7 Mouse Anti-Human CD4 [42D94J37].



Human peripheral blood lymphocytes were stained with PE-Cy7 Mouse Anti-Human CD4 [42D94J37], Red histogram. Un-stained control is blue histogram.