Source

Monoclonal Anti-Human CD4 Antibody, Mouse IgG1 (8C3) is a mouse monoclonal antibody produced from hybridoma.

Application

Flow Cytometry (Evaluation of the expression of CD4 on Human cells).

Species

Mouse

Isotype

Mouse IgG1 | Mouse kappa

Specificity

This product is a specific antibody specifically reacts with CD4 protein.

Reactivity

Human

Immunogen

Purified Human CD4 Protein.

Conjugate

PE-CY7

Excitation Wavelength: 561 nm

Emission Wavelength: 780 nm

Recommended Dilution

1:20

Formulation

Supplied as 0.2 μm filtered solution in PBS, 0.2% BSA, 0.03% Proclin 300, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

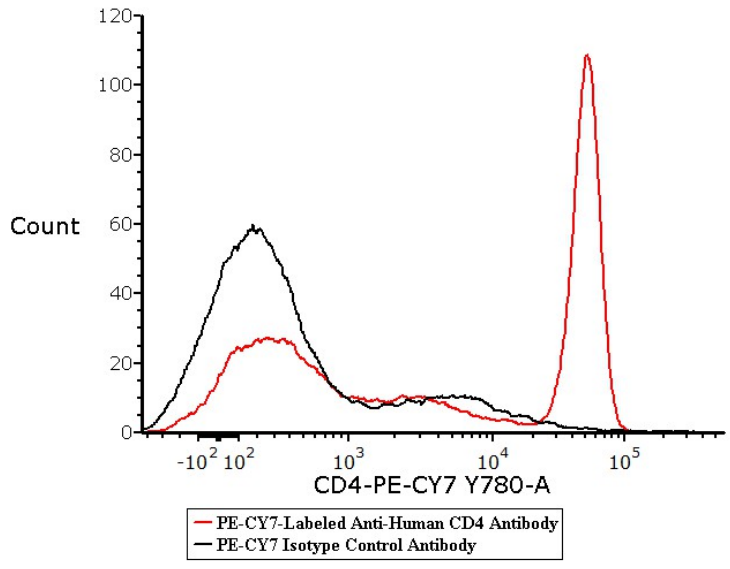
Storage

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- Store at 2-8 °C for 12 months.

Bioactivity-FACS



Flow cytometric analysis of Human peripheral blood lymphocytes respectively staining with PE-CY7-Labeled Anti-Human CD4 Antibody Mouse IgG1 (Cat. No. FABm002-04) at 1:20 dilution (5 μL of the antibody stock solution corresponds to labeling of 2.5e5 cells in a final volume of 100 μL), compared

with isotype control antibody. PE-CY7 signal was used to evaluate the binding activity (QC tested).

Background

T-cell surface glycoprotein CD4 is also known as T-cell surface antigen T4/Leu-3. CD4 contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CD4 is accessory protein for MHC class-II antigen/T-cell receptor interaction. CD4 induces the aggregation of lipid rafts. CD4 is a primary receptor used by HIV-1 to gain entry into host T cells. HIV infection leads to a progressive reduction of the number of T cells possessing CD4 receptors. Therefore, medical professionals refer to the CD4 count to decide when to begin treatment for HIV-infected patients.

Clinical and Translational Updates