FITC Conjugated Anti-CD19 Antibody [PSH14-97] HA601518F

Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	FC
Molecular Wt:	Predicted band size: 61 kDa
Clone number:	PSH14-97

Description: B-lymphocyte antigen CD19, also known as CD19 molecule (Cluster of Differentiation 19), B-Lymphocyte Surface Antigen B4, T-Cell Surface Antigen Leu-12 and CVID3 is a transmembrane protein that in humans is encoded by the gene CD19. In humans, CD19 is expressed in all B lineage cells. Contrary to some early doubts, human plasma cells do express CD19. CD19 plays two major roles in human B cells: on the one hand, it acts as an adaptor protein to recruit cytoplasmic signaling proteins to the membrane; on the other, it works within the CD19/CD21 complex to decrease the threshold for B cell receptor signaling pathways. Due to its presence on all B cells, it is a biomarker for B lymphocyte development, lymphoma diagnosis and can be utilized as a target for leukemia immunotherapies.

Conjugate: FITC-conjugated

Positive control: Human peripheral blood lymphocytes.

Subcellular location: Cell membrane, Membrane raft.

Database links: SwissProt: P15391 Human

Recommended Dilutions:

FC 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Storage Buffer: Supplied in phosphate-buffered solution, pH 7.2, containing 0.2% ProClean 950 and BSA.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

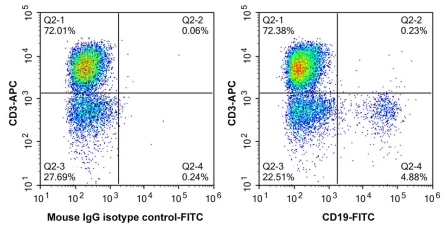

Fig1: Flow cytometric analysis of human peripheral blood lymphocytes labeling CD19 (HA601518F, FITC) and CD3 (HA600118F, APC).

Cells were washed twice with cold PBS and resuspend. Then incubated for 1 hour at +4℃ with CD19 (HA601518F, FITC, 1/1,000) compared with Mouse IgG Isotype Control (FITC, 1/1,000).

Background References

1. Pecher AC et al. CD19-Targeting CAR T Cells for Myositis and Interstitial Lung Disease Associated With Antisynthetase Syndrome. JAMA. 2023 Jun
2. Mougiakakos D et al. CD19-Targeted CAR T Cells in Refractory Systemic Lupus Erythematosus. N Engl J Med. 2021 Aug