

# APC Conjugated Anti-CD19 Antibody [PSH13-44] HA723761F



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	FC
<b>Molecular Wt:</b>	Predicted band size: 61 kDa
<b>Clone number:</b>	PSH13-44

**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:** APC

**Immunogen:** Recombinant protein within human CD19 aa 1-291.

**Positive control:** Human peripheral blood cells, Ramos.

**Subcellular location:** Cell membrane, Membrane raft.

**Database links:** SwissProt: P15391 Human

**Recommended Dilutions:**  
FC 5  $\mu$ l per million cells in 100  $\mu$ l staining volume or 5  $\mu$ l per 100  $\mu$ l of whole blood.

**Storage Buffer:** 1\*PBS (pH7.4), 1% BSA, 40% Glycerol, 0.2% Proclean 950.

**Storage Instruction:** Store at 2°C to 8°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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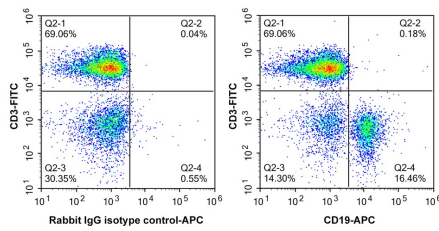
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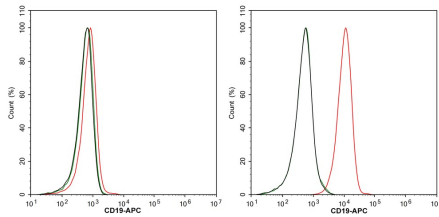
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## Images



**Fig1:** Flow cytometric analysis of human peripheral blood cells labelling CD19 (HA723761F, APC) and CD3 (HA600116F, FITC).

Cells were washed twice with cold PBS and resuspend. Then incubated for 1 hour at +4°C with CD19 (HA723761F, APC, 1/1,000) compared with Rabbit IgG Isotype Control (APC, 1/1,000).



**Fig2:** Flow cytometric analysis of K-562 (left, negative) and Ramos (right, positive) cells labeling CD19 (HA723761F, APC).

Cells were washed twice with cold PBS and resuspend. Then incubated for 1 hour at +4°C with CD19 (HA723761F, APC, 1/1,000) (red). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## 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. Fischbach F et al. CD19-targeted chimeric antigen receptor T cell therapy in two patients with multiple sclerosis. Med. 2024 Jun

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