

PE Anti-Human CD19 (SJ25C1)

Catalog Number: PE-65145

Basic Information

Catalog Number: PE-65145	GenBank Accession Number: BC006338	Purification Method: Affinity purification
Size: 100 tests, 5 µl/test	GeneID (NCBI): 930	CloneNo.: SJ25C1
Source: Mouse	Full Name: CD19 molecule	Excitation/Emission maxima wavelengths: 496 nm, 565 nm / 578 nm
Isotype: IgG1, kappa	Calculated MW: 556 aa, 61 kDa	

Applications

Tested Applications:
FC

Species Specificity:
Human

Background Information

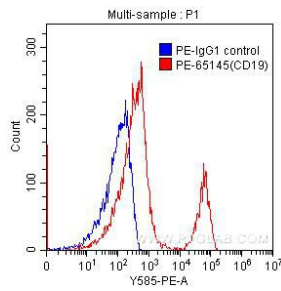
CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).

Storage

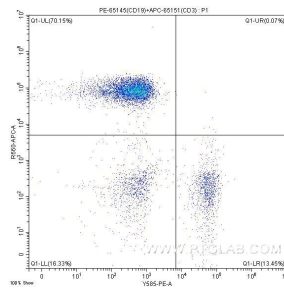
Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

Selected Validation Data



1X10⁶ human peripheral blood lymphocytes were surface stained with 0.25 ug PE-anti-human CD19 (PE-65145, clone SJ25C1) (red) or 0.25 ug PE-mouse IgG1 isotype control (blue). Cells were not fixed.



0.1 mL human whole blood cells were surface stained with 0.25 ug APC-anti-human CD3 (APC-65151, clone UCHT1) and 0.25 ug PE-anti-human CD19 (PE-65145, clone SJ25C1). Cells were then treated with red blood cell lysis buffer and were gated for lymphocytes for analysis of CD3 and CD19 staining. Cells were not fixed.