

For Research Use Only

# CoraLite®647-conjugated CD19 Mouse McAb



Catalog Number: CL647-65197

## Basic Information

Catalog Number:  
CL647-65197

Size:  
100tests , 5 µl/test

Source:  
Mouse

Isotype:  
Mouse IgG1, kappa

GenBank Accession Number:  
BC006338

GeneID (NCBI):  
930

Full Name:  
CD19 molecule

Calculated MW:  
556 aa, 61 kDa

Purification Method:  
Protein G purification

CloneNo.:  
4G7

Excitation/Emission maxima  
wavelengths:  
650 nm/665 nm

## 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.  
Storage Buffer:  
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

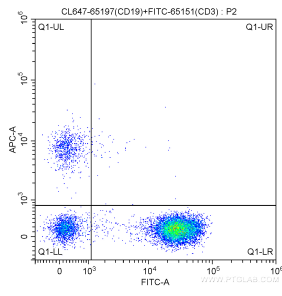
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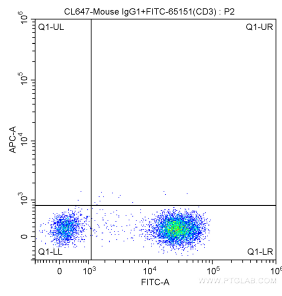
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## Selected Validation Data



1X10<sup>6</sup> human peripheral blood lymphocytes were surface stained with FITC-Anti-Human CD3 (FITC-65151, Clone: UCHT1) and 5 ul CoraLite®647-conjugated Anti-Human CD19 (CL647-65197, Clone: 4G7). Cells were not fixed.



1X10<sup>6</sup> human peripheral blood lymphocytes were surface stained with FITC-Anti-Human CD3 (FITC-65151, Clone: UCHT1) and CoraLite®647-conjugated Mouse IgG1 isotype control. Cells were not fixed.